03/01/05 ACCT: 419643002 EO NBE: E 07930C

**** MATERIAL SAFETY DATA SHEET ****

Formaldehyde-Free Cats, Rats, and Rabbits 92705

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

WSDS Name: Formaldehyde-Free Cats, Rats, and Rabbits Catalog Numbers: \$19905S, \$0907S, \$0908S, \$0910S, \$0912S, \$1068S, \$1070S, \$1071S, \$1174S, \$1175S, \$1176S, \$1182S

S0914S, S1178S,

Synonyms:
None Known.
Thany Identification:

Fisher Scientific
1 Reagent Lane
Fairlawn, NJ 0741
201-796-7100
201-796-7100 07410

For information, call: 201-796-7100 Emergency Number: 201-796-7100 For CHEMTREC assistance, call: 800-424-9300 For International CHEMTREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

*	+	Hazard Symbols, XT	S prezen	
231-791-2	Balance	Water		
203-856-5	<1.08	Glutaraldehyde	111-30-8	
203-632-7	<1.0]] 	108-95-2 PhenoI	_
200-662-2	A1.0		67-64-1	
200-338-0	8-11-8	57-55-6 1,2-propylene glycol	57-55-6	
EINECS#	dP	cal Name	CAS#	

Risk Phrases: 36/37/38

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

appearance: Not available.

Warning: Irritant: Harmful if swallowed. Causes severe respiratory tract irritation. Causes severe eye and skin irritation. May cause severe digestive tract irritation. May cause sensitization by skin

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Causes severe eye irritation. May cause chemical conjunctivitis.

Causes severe skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this Ingestion.

Ingestion:

Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

Chron Causes severe respiratory tract irritation. Can produce delayed pulmonary edema.

delayed. When sufficient amounts are absorbed, the effects can be increased and irregular heart rate, low blood pressure, difficulty breathing, cough and skin discoloration may result. Death can occur in minutes. However, the concentrations in this mixture are not expected to produce the ver. Repeated exposure may cause sensitization dermatitis. Effects may be

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Skin: Immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting the upper and lower eyelids. Get medical aid.

Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth a drink 2-4 cupfuls of milk or water.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult,

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DATE: 03/01/05 ACCT: 419643002

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FO NER: E 07930C

give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.
Notes to physician:

Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/MIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media: dilution water may cause pollution.

Extinguishing Media: dry chemical Treat as a combustible liquid.

Autoignition Temperature:Not available.

Flash Point: Not available.

Explosion Limits, lower:Not available.

Explosion Limits, upper:Not available.

Explosion Limits, upper:Not available.

Explosion Limits, upper:Not available.

Explosion Limits, upper:Not available.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

Spills/Leaks: General Information: Use proper personal protective equipment as indicated in Section 8.

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:
Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation, Wash clothing before reuse. Keep away from heat and flame.

Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

1						╗
Water none listed	Glutaraldehyde	Phenol	Acetone		Chemical Name	
none listed	0.05 ppm Ceiling (activated and inactivated)	5 ppm; skin - potential for cutaneous absorption	500 ppm; 750 ppm STEL	none listed	#	
none listed	none listed	5 ppm TWA; 19 mg/m3 TWA 250 ppm IDLH	250 ppm TWA; 590 mg/m3 TWA 2500 ppm IDLH	none listed	HSOIN	
none listed	none listed	5 ppm TWA; 19 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA	none listed	OSHA - Final PELS	

OSHA Vacated PELs:
1,2-propylene glycol:
NO OSHA Vacated PELs are listed for this chemical

Acetone: 750 ppm TWA; 1800 mg/m3 AWI

5 ppm TWA; 19 mg/m3 TWA Gluttaraldehyde: NO OSHA Vacated PELs are listed for this

Water: No OSHA Vacated PELs are listed for this chemical

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Physical State:
Color:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        apor Pressure:
apor Density:
vaporation Rate:
                                                                                                                                                                                 Carcinogenicity:
1,2-propylene glycol -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #50/IC50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chemical Stability:

Conditions to Avoid:

Ignition sources, excess heat.

Incompatibilities with Other Materials:

Strong oxidizing agents, alkalies.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, hydrocarbons.

Hazardous Polymerization: Will not occur.
                                                                                                                                                                                                                                                                                    rabbit, eye: 500 mg/24H Mild; oral, rabbit, eye: 100 mg Mild; Draize test, rabbit, eye: 500 mg/24H Mild; oral, nouse: LD50 = 2030 mg/kg; Oral, nouse: LD50 = 2030 mg/kg; Oral, rabbit: LD50 = 18500 mg/kg; Oral, rabbit: LD50 = 18500 mg/kg; Oral, rat: LD50 = 20800 mg/kg; Skin, rabbit: LD50 = 20800 mg/kg; Skin, rabbit: LD50 = 20800 mg/kg; Skin, rabbit: LD50 = 20800 mg/kg; Draize test, rabbit: eye: 10 ul Mild; Draize test, rabbit: eye: 20 mg/24H Mild; Inhalation, mouse: LD50 = 44 gm/m3/4H; Oral, rabbit: LD50 = 51000 mg/kg; Oral, rat: LD50 = 44 gm/m3/4H; Oral, rabbit: LD50 = 5100 mg/kg; Oral, rat: LD50 = 5800 mg/kg; Oral, rat: LD50 = 3 gm/kg; Oral, rabbit: Skin: 500 mg/24H Mild; Thablation, rat: LD50 = 5800 mg/kg; Oral, rat: LD50 = 3 gm/kg; Oral, rabbit: Skin: 500 mg/kg; Oral, rat: LD50 = 77 mg/m3; Thalation, rat: LD50 = 1317 mg/kg; Oral, rat: LD50 = 317 mg/kg; Oral, rat: LD50 = 580 mg/kg; Oral, rat: LD50 = 134 mg/kg; Oral, rat: LD50 = 135 mg/kg; Oral, rat: LD50 = 134 mg/kg; Oral, rat: LD50 = 135 mg/kg; Oral, rat: LD50 = 135 mg/kg; Oral, rat: LD50 = 136 mg/kg; Oral, rat: LD50 = 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RTECS# :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Point:
Point:
g/Melting Point:
---ion Temperature:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAS# 57-55-6: TY2000000
CAS# 67-64-1: AL3150000
CAS# 108-95-2: S325000
CAS# 111-30-8: MA2450000
CAS# 7732-18-5: ZC0110000
                                    ACGIH: A4 - Not Classifiable IARC: Group 3 carcinogen
                                                                                                                          ACGIH: A4 - Not Classifiable as a Human Carcinogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               **** SECTION 11 - TOXICOLOGICAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      **** SECTION 10 - STABILITY AND REACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SECTION 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Follow the OSHA respirator regulations found in 29 CFR 1910-134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wear appropriate protective clothing to prevent skin exposure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wear appropriate protective gloves to prevent skin exposure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Soluble.
1.06
Solution
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Not available.
aldehyde-like
Not available.
30 mm Hg @ 20 deg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Not ave
100 deg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -- PHYSICAL AND CHEMICAL PROPERTIES ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Clear liquid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             available.
deg C
deg C
                                                               as a Human Carcinogen
                                                                                                                      STATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SD
1.2-propylene glycol can be found on the following know lists: Pensylvania, Minnesota.
Acetone can be found on the following state right t
                                                                                                                                                                                                                         OSHA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Other
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DAMES: 03/01/0S ACCT; 419641002 PO NER: % 07930C

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Protective Equipment

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Classification.

RCRA P-Series: None listed.

RCRA U-Series: CAS# 67-64-1: waste number U002

(Ignitable waste). CAS# 108-95-2: waste number U188.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste, "Is Elassified as a hazardous waste, "Is EPA guidelines for the classification determination are listed in 10 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate
                                                                                                                CAS # 108-95-2: acute, chronic, flammable.
CAS # 108-95-2: acute, chronic, flammable.
CAS # 113-30-8: acute,
CAS # 113-30-8: acute,
Section 313
This material contains Phenol (CAS# 108-95-2, 1 0%), which is subject to the reporting requirements of Section 313 of SAHA Title III and 40 CFR Part 372.
Clean Air Act:
CAS# 108-95-2 is listed as a hazardous air pollutant (HAP).
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
CAS# 108-95-2 is listed as a Priority Pollutant under the CWA.
Act 108-95-2 is listed as a Priority Pollutant under the CWA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SARA CERCIA Hazardous Substances and corresponding RQs CERCIA Hazardous Substances and corresponding RQs CAS# 67-64-1: 5000 lb final RQ; 2270 kg final RQ CAS# 108-95-2: 1000 lb final RQ; 454 kg final RQ SARA Section 302 Extremely Hazardous Substances CAS# 108-95-2: 500 lb TPQ (lower threshold); 10,000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Neurotoxicity:
No data av
Mutagenicity:
Mutagenicity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US DOW

No information available

Canadian TDG mation available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Teratogenicity:
No data available.
Reproductive Effects:
No data available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DATE: 03/01/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Epidemiol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Section 12b
CAS# 67-64-1; 4/12b
TSCA Significant New Use Rule
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Water - Not listed by ACGIH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Glutaraldehyde - ACGIH: A4 \sim Not Classifiable as a Human Carcinogen (activated and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SARA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAS# 57-55-6 is listed on the TSCA inventory.
CAS# 619-64-1 is listed on the TSCA inventory.
CAS# 108-95-2 is listed on the TSCA inventory.
CAS# 111-30-8 is listed on the TSCA inventory.
CAS# 111-30-8 is listed on the TSCA inventory.
Health 7732-18-5 is listed on the TSCA inventory.
Health 6 Safety Reporting List
Chemical 10-95-2 Iffective Date: 6/1/87; Sunset Date: 6/1/97
None of the chemicals in this product are under a Chemical
None of the by OSHA.
                                                             Act.
CAS# 108-95-2 is listed as a Toxic Pollutant under the Clean Water
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       No date
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           See actual entry in RTECS for complete information.
                       of the chemicals in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ta available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Test Rules
the chemicals in this product
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   **** SECTION 13 - DISPOSAL CONSIDERATIONS ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      **** SECTION 15 - REGULATORY INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      **** SECTION 14 - TRANSPORT INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            **** SECTION 12 - ECOLOGICAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCT: 419643602
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                       Stdt
                    product
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           are under a Chemical Test Rule.
      considered highly hazardous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DOEELO MER. POTO
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on the following state right to know lists:

1,845

INDEX: 03/01/05 **** MATERIAL SAFETY DATA SHEET **** ACCT: 419643002 BO NEE: K U/95UC

Formaldehyde-Free Cats, Rats, and Rabbits

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MXDS Name: Formaldehyde-Free Cats, Rats, and Rabbits Catalog Numbers: \$109035, \$09075, \$09085, \$09105, \$09125, \$10715, \$11748, \$11755, \$11765, \$11815, \$11825 S0914S, S0916S, S1067S, S1178S, S1179S, S1180S,

Synonyms:

None Known.

Company Identification: Fisher Scientific

1. Reagent Lane
1. Reagent Lane
20.196-7100

For information, call: 20.1-96-7100

Emergency Number Call: 20.1-96-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

7732-18-5 111-30-8 108-95-2 67-64-1 57-55-6 1,2-propylene glycol Water Glutaraldehyde Phenol Chemical Name 8-11% Balance **^1.0%** ×1.0 ۸<u>۱</u>۰ 200-338-0 203-856-5 203-632-7 EINECS# 200-662-2

Hazard Symbols: XI Risk Phrases: 36/37/38

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: Not available. Warning: Irritant. Harmful if swallowed. Causes severe respiratory Warning: Irritation. Causes severe eye and skin irritation. May cause tract irritation. Causes severe digestive tract irritation. May cause sensitization by skin

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects Eye:

Causes severe eye irritation. May cause chemical conjunctivitis.

Causes severe skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this

material. Ingestion:
Ingestion:
Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhee.
Inhalation:

Causes severe respiratory tract irritation. Can produce delayed pulmonary edema.

delayed, when sufficient amounts are absorbed, the effects can be increased and irregular heart rate, low blood pressure, difficulty breathing, cough and skin discoloration may result. Death can occur in minutes. However, the concentrations in this mixture are not expected to produce the ver, the con Repeated exposure may cause sensitization dermatitis. Effects may be

**** SECTION 4 - FIRST AID MEASURES ****

Skin: Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth a drink 2-4 cupfuls of milk or water.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult,

CAT NO: S1174S FO NER: K 07930C

PACE: 2

give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.
Notes to Physician:
Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NTOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire, Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air They can spread along the ground and collect in low or confined areas. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media: divide or dry chemical. Treat as a combustible liquid. Autolymition Temperature:Not available. Flash point:
Explosion Limits, lower:Not available. Explosion Limits, upper:Not available.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks:

Absorb spill with inert material (e.g. varmiculite, sand or earth), then place in suitable container. Avoid runoff into storm awers and ditches which lead to waterways Clean up spills immediately wers and observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:
Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse. Keep away from heat and flame.

Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away frincompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ***

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate with an eyewash facility and concentrations low.

Chemical Name ACGIH NIOSH	ACGIH		OSHA - Final PELS
1,2-propylene glyco none listed	none listed	none listed	none listed
Acetone	500 ppm; 750 ppm STEL	250 ppm TWA: 590 mg/m3 TWA 2500 ppm IDLH	1000 ppm TWA; 2400 mg/m3 TWA
 Phenol	5 ppm; skin - potential for cutaneous absorption	5 ppm TWA; 19 mg/m3 TWA 250 ppm IDLH	5 ppm TWA; 19 mg/m3 TWA
 Glutaraldehyde	0.05 ppm Ceiling (activated and inactivated)	none listed	none listed
 Water	none listed	none listed	none listed

OSHA Vacated PELs:
1,2-propylene glycol:
1,2-po OSHA Vacated PELs are listed for

ppm TWA: 1800 mg/m3 TWA

ppm TWA; 19 mg/m3 TWA

taraldehyde: No OSHA Vacated PBLs are listed for this chemical.

Water: No OSHA Vacated PELs are listed £0X this chemical

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LD50/LC50:

LD50/L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Physical State:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Aling Point:
Georing/Melting Point:
Geomposition Temperature:
Slubility in Water:
Lecific Gravity/Density:
Lecular Formula:
Clecular Weight:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oor Pressure;
oor Density:
aporation Rate:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RTECS#: 57-55-6: TY2000000
CAS# 67-64-1: AL3150000
CAS# 108-95-2: SU3325000
CAS# 118-95-2: SU3325000
CAS# 111-30-8: MA2450000
CAS# 7732-18-5: ZC0110000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DATE: 03/01/05 ACCT: 41964
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ignition sources, excess heat.
Incompatibilities with Other Matherials:
Strong oxidizing agents, alkalies.
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide, hydrocarbons.
Hazardous Polymerization: Will not occur.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chemical Stability:
Avoid high temperatures above 200&F and removal of water.
Conditions to Avoid:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Personal Protective Equipment
ACGIH: A4 - Not Classifiable as a Human Carcinogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      **** SECTION 11 - TOXICOLOGICAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       **** SECTION 10 - STABILITY AND REACTIVITY ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pollow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always us a NIOSH or European Standard EN 149 approved respirator when necessary.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wear appropriate protective clothing to prevent skin exposure.
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NC available
aldebyderlike
Mot available
30 mm Hg @ 20 deg C
0.84
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1.06
Solution
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100 deg C
-7 deg C
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PAGE: 3

ACGIH: A4 - Not Classifiable as a Human Carcinogen IARC: Group 3 carcinogen

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste, the classified as a hazardous waste, the classified the classified as a hazardous waste or classified as a consult state of the classified penerators must consult state and local hazardous waste regulations to ensure complete and accurate
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RCRA P-Series: None listed.
RCRA U-Series: CAS# 67-64-1: waste number U002
(Ignitable waste). CAS# 108-95-2: waste number U188.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US FEDERAL
TSCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SARA
CERCIA Hazardous Substances and corresponding RQs
CAS# 67-64-1: 5000 lb final RQ; 2270 kg final RQ
CAS# 108-95-2: 1000 lb final RQ; 454 kg final RQ
SARA Section 302 Extremely Hazardous Substances
CAS# 108-95-2: 500 lb TPQ (lower threshold); 10,(
threshold)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Clean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Canadian TDG
No information available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mutagenicity:
No data available.
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No data available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         No data available.

Texatogenicity:

No data available.

Reproductive Effects:

No data available.
1,2-propylene glycol can be found on the following state right to know lists: Pennsylvania, Minnesota.
Acetone can be found on the following state right to know lists:
                                                                                                                                                                                                  OSHA:
                                                                                                                                                                                                                                                                                                                                                                             Clean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Epidemiology:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INDEX: 03/01/05 ACCT: 419643002
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Not listed by ACGIH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Glutaraldehyde -
ACGIH: A4 - Not Classifiable as a Human Carcinogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAS# 57-55-6 is listed on the TSCA inventory.
CAS# 57-64-1 is listed on the TSCA inventory.
CAS# 108-95-2 is listed on the TSCA inventory.
CAS# 110-30 s is listed on the TSCA inventory.
CAS# 111-30 s is listed on the TSCA inventory.
Health 6 Safety Reporting List
CAS# 1732-18-5 is listed on the TSCA inventory.
Health 6 Safety Reporting List
Chemical Test Railes
Chemical Test Railes
Nome of the chemicals in this product are under a Chemical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SARA Codes
SARA Codes
CAS # 67-64-1: acute, chronic, flammable.
CAS # 108-95-2: acute, chronic, flammable.
CAS # 111-30-8: acute.
Section 313
This material contains Phenol (CAS# 108-95.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Section 12b
CAS# 67-64-1: 4/12b
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR
                                                                                                                                                                                                                                                                                            ritis material contains Phenol (CAS# 108-95-2, 1 0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

ACT Part 372.

CAS# 108-95-2 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

CAS# 108-95-2 is listed as a Priority Pollutant under the CWA.

CAS# 108-95-2 is listed as a Priority Pollutant under the Clean Water Act.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             No information available
                                                                                                                             None of the chemicals in this product are considered highly hazardous by OSHA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          See actual entry in RTECS for complete information.
                                                                                                                                                                                                                                           # 108-95-2 is listed as a Toxic Pollutant under the Clean Water
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Test Rules
the chemicals in this product are under a Chemical Test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            **** SECTION 13 - DISPOSAL CONSIDERATIONS ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               **** SECTION 14 - TRANSPORT INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     **** SECTION 12 - ECOLOGICAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        **** SECTION 15 - REGULATORY INFORMATION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TPQ (upper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (activated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rule.
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United Kingdom Maximum Exposure Limits CAS# 108-95-2: MEL-United Kingdom, CAS# 111-30-8: MEL-United Kingdom, CAS# 111-30-8: MEL-United Kingdom,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WGK (Water
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         United
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         California, No
Phenol can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ster is not present on state lists from Ca, PA, MN, MA, FL, or NJ.
slifornia No Significant Risk Level:
one of the chemicals in this product are listed.
san/International Regulations
irropean Labeling in Accordance with EC Directives
Hazard Symbols: XI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Safety Phrases:

CAS# 57-55-6:0

CAS# 57-64-1:0

CAS# 111-30-8:2

CAS# 17732-18-5:No info:
CEAS# 108-95-2; OEL-ARAB Republic of Egypt:TWA 5 ppm (19 mg/m3); Skin OEL-BELGIUM:TWA 5 ppm (19 mg/m3); Skin OEL-BELGIUM:TWA 5 ppm (19 mg/m3); Skin OEL-EBROGIUM:TWA 5 ppm (19 mg/m3); Skin OEL-EINDAMAKK:TWA 5 ppm (19 mg/m3); Skin OEL-EINDAMAKY:TWA 5 ppm (19 mg/m3); Skin OEL-CHUNGAKY:TWA 5 ppm (19 mg/m3); Skin OEL-CHUNGAKY:TWA 5 ppm (19 mg/m3); Skin OEL-CHUNGAKY:TWA 5 ppm (19 mg/m3); Skin OEL-CHEN THE PILLEPINES:TWA 5 ppm (19 mg/m3); Skin OEL-CHEN THAILPEINES:TWA 5 ppm (10 mg/m3); Skin OEL-CHENGAKIAN; TWA 5 ppm (4 mg/m3); Skin OEL-CHUNGAKY:TWA 5 ppm (4 mg/m3); SKIN OEL-CHAND:TWA 5 ppm (4 mg/m3); SKIN OEL-CHAND:TWA 5 ppm (4 mg/m3); SKIN OEL-CHAND:TWA 5 ppm (19 mg/m3); SKIN OEL-CHAND:TWA 5 ppm (19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAS# 57-55-6 is listed on Canada's DSL List.
CAS# 108-64-1 is listed on Canada's DSL List.
CAS# 1108-95-1 is listed on Canada's DSL List.
CAS# 1111-30-8 is listed on Canada's DSL List.
CAS# 121-30-8 is listed on Canada's DSL List.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AS# 67-64-1: OEL-AUSTRALIA:IWA 500 ppm (1185 mg/m3);STEL 1000 ppm EL-AUSTRALIA:IWA 500 ppm (1180 mg/m3);STEL 1000 ppm EL-AUSTRALIA:IWA 750 ppm (1780 mg/m3);STEL 1000 ppm EL-CZECHOSICOVAKIA:IWA 800 mg/m3;STEL 4000 mg/m3
EL-PINLAND:IWA 500 ppm (1000 mg/m3);STEL 625 ppm (1500 mg/m3)
EL-FINLAND:IWA 500 ppm (1200 mg/m3);STEL 1000 ppm (1500 mg/m3)
EL-INDALIA:IWA 500 ppm (4000 mg/m3);STEL 1000 ppm (2375 mg/m3)
EL-INDALIA:IWA 750 ppm (1780 mg/m3);STEL 1000 ppm (2375 mg/m3)
EL-INDALIA:IWA 750 ppm (1780 mg/m3);STEL 1000 ppm (2375 mg/m3)
EL-INDALIA:IWA 750 ppm (1780 mg/m3);STEL 1000 ppm (2375 mg/m3)
EL-INDALIA:IWA 200 ppm (470 mg/m3);STEL 1000 ppm (2375 mg/m3)
EL-INDERIA:IWA 200 mg/m3);STEL 200 mg/m3)
EL-INDERIA:IWA 200 mg/m3);STEL 200 mg/m3)
EL-INDERIA:IWA 200 ppm;STEL 200 mg/m3)
EL-INDERIA:IWA 200 ppm (2400 mg/m3);STEL 1250 mg/m3)
EL-INDERIA:IWA 750 ppm (1780 mg/m3)
EL-INDERIA:IWA 750 ppm (1780 mg/m3);STEL 1250 ppm
EL-INDERIA:IWA 750 ppm (1780 mg/m3);STEL 1250 ppm
EL-INDERIA:IWA 750 ppm (1810 mg/m3);STEL 1250 ppm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-18-5; No information available.
Occupational Exposure Limits
-55-6: OES-United Kingdom, TWA 150 ppm TWA (vapor and lates); 474 mg/m3 TWA (vapor and particulates); 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            is listed on Canada's Ingredient Disclosure List.
is listed on Canada's Ingredient Disclosure List.
2 is listed on Canada's Ingredient Disclosure List.
8 is listed on Canada's Ingredient Disclosure List.
1-5 is not listed on Canada s Ingredient Disclosure List.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R 36/37/38
and skin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Irritating to eyes, respiratory system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TWA 2 ppm TWA: 0.2 mg/m3 TWA
TWA 0.05 ppm TWA: 0.2 mg/m3 TWA
STEL 0.05 ppm STEL; 0.2 mg/m3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ppm (19 mg/m3);Skin
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PARE: 03/01/05 A.V.T. 419543803 PAOE 6

ENDE: 65055367 CAT NO: 511745 PO NEE: K 07930C

DATE: 03/01/05 ACCT 119643502

PO NERV E 079300

S. Cabbaca

OBEL-DERMARK:STEL 0.2 ppm (0.8 mg/m3)
OEL-FRANCE:STEL 0.2 ppm (0.8 mg/m3)
OEL-FRANCE:STEL 0.2 ppm (0.8 mg/m3)
OEL-GERMANY:TWA 0.2 ppm (0.8 mg/m3)
OEL-GERMANY:TWA 0.2 ppm (0.8 mg/m3)
OEL-TRIADD:TWA 0.2 ppm (0.8 mg/m3)
OEL-STEL STEL 5 mg/m3
OEL-STEL STEL 5 mg/m3
OEL-STEL STEL 0.2 ppm (0.8 mg/m3)
OEL-STELAND:TWA 0.2 ppm (0.8 mg/m3),STEL 0.4 ppm (1.6 OEL-UNTTED KINGEOM:TWA 0.2 ppm (0.8 mg/m3),STEL 0.2 ppm OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM Check ACGIT TLV

mg/m3)

**** SECTION 16 - ADDITIONAL INFORMATION ****
Creation Date: 6/19/2003 Revision #2 Date: 6/19/2003

SCS

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