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MAY 11, 1995

NASCO

PLEASE FIND ATTACHED THE MSDS SHEETS FOR OUR \$3000-1 AND PH PAPER. PLEASE NOTE THAT THERE ARE 3 SOLUTIONS USED IN THIS MIXTURE. IT IS 95% DENATURED ALCOHOL AND 5% OF A MIXTURE OF PHENOL RED AND BROMOTHYMOL BLUE. SO THERE ARE THREE MSDS SHEETS. IF YOU NEED ANY FURTHER INFORMATION PLEASE FEEL FREE TO CONTACT US. THANK YOU.

SINCERELY,

EDITH WILSON

Material Safety Data Sheet

From Genium's Reference Collection Genium Publishing Corporation 1145 Catalyn Street
Schenectady, NY 12303-1836 USA

(518) 377-8855



ca 100

No. 642

BROMTHYMOL BLUE

Issued: November 1987

23.7(0) A 1.6) C 1 A 1.4 (0) C 1 A 1.4 (0) C 1.4 (0) C

Material Name: BROMTHYMOL BLUE

Description (Origin/Uses): Used as an acid-base indicator, showing a color change from yellow to blue over the range pH 6.0 to 7.6.

Other Designations: C,H,Br,O,S; CAS No. 0076-59-5

Manufacturer: Contact your supplier or distributor. Consult the latest edition of the Chemicalweek Buyers' Guide (Gouism ref. 73) for a list of suppliers.

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SECTION 2 INGREDIENTS AND HAZARDS EXPOSURE LIMITS

Brominymol Blue, CAS No. 0076-59-5

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Comments: Exposure limits for broughymal blue have not been set by the ACGIH, NIOSH, or OSHA; peither have toxicity data for this material been evaluated by NIOSH.

SECTION STATES OF THE PROPERTY OF THE PROPERTY

Water Solubility: Slight Vapor Pressure: Negligible Evaporation Rate: Not Found

Specific Gravity (H_.0 = 1): Not Found Melting Point: It begins to desempose at 392°F (200°C).

Molecular Weight: 624 Grams/Mole % Volatile by Volume: Negligible

Appearance and Odor: Off-white, cream-colored crystals or powder; no data on odor found.

SECTION 4 FIRE	SANDS BARRON (ORMO).	ALL AND	LOWER	UPPER
Flash Point and Method	Autoignition Temperature	Flammability Limits in Air	Not	Not
Not Found*	Not Found*	% by Volume	Found*	Found*

Extingulabling Media: *Use water fog, dry chemical, "alcohol" foam, or carbon dioxide to fight fires involving bromthymol blue. Use a water spray to cool fire-exposed tanks or containers. Consult suppliers of foam before an emorgency arises to determine their products' specific applicability to bromthymol blue fires.

Unusual Fire or Explosion Hazards: This combustible solid is a slight fire hazard when exposed to heat, sparks, and open flame.

Special Fire-fighting Procedures: West a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressuredemand or positive-pressure mode.

SECTIONES TREACHDIDE DATA THE THE TABLE TABLE TO THE TABLE THE TABLE TO THE TABLE TABLE TO THE TABLE TABLE TABLE TO THE TABLE TAB

Bromthymol blue is stable in closed containers at room temperature under normal storage and handling conditions. It does not undergo hazardous polymerization.

Chemical Incompatibilities: This material is incompatible with strong exidizers.

Conditions to Aveid: Avoid dirers exposure to heat, sparks, open flame, lighted tobacco products, and chemical incompatibles.

Hazardous Products of Decomposition: When heated to decomposition, bromthymol blue can emit toxic gases such as hydrogen bromide (HBI), sulfur oxides (SO), carbon motoxide, and/or carbon diaxide.

SECTION 6. HEALTH HAZARD INFORMATION

Bromthymol blue is not listed as a carcinogen by the NTP, IARC, or OSHA.

Summary of Risks: This material is relatively nonhazardous in routine industrial situations. It is not expected to present significant health risks to the workers who use it. It is toxic by ingestion, although this possibility is extremely unlikely if recommended personal hygiene procedures are followed,
hygiene procedures are followed,
Medical Conditions Aggravated by Long-Term Exposure: None reported.
Target Organs: None reported. Primary Entry: Inhalation, skin contact.
Acute Effects: None reported. Chronic Effects: None reported.

FIRST AID

Eye Contact: Immediately flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15

Skin Contact: Immediately wash the affected area with soap and water.

Inhalation: Remove victim to fresh air; restore and/or support his breathing as needed,

Ingestion: Never give anything by mouth to someone who is unconscious or convulsing. If the victim is responsive, give him one or two glasses of milk or water to drink. Do not induce vomiting unless directed to do so by a physician.

GET MEDICAL HELP (IN PLANT, PARAMEDIC, COMMUNITY) FOR ALL EXPOSURES. Seek prompt medical assistance for further treatment, observation, and support after first aid.

SECTION RESPUBLICATION OF THE PROCEDURES

Spill/Leak: Notify safety personnel of large bromthymol blue spills or leaks. Remove all sources of heat and ignition. Evacuate the spill area and limit access to necessary personnel only. Remove leaking containers to a safe place, if feasible. Scoop, shovel, or vacuum the spilled material into closable containers for disposal. Use caution to avoid generating dust,

Waste Disposal: Consider reclamation, recycling, or destruction rather than disposal in a landfill. Contact your supplier or a licensed contractor for detailed recommendations. Follow Federal, state, and local regulations.

OSHA Designations

Air Contaminant (29 CFR 1910,1000 Subpart Z): Not Listed

EPA Designations (40 CFR 302.4)

RCRA Hazardous Waste: Not Listed

CERCLA Hazardous Substance: Not Listed

SECTION 8. SPECIAL PROTECTION INFORMATION

Goggles: Always wear protective cycglasses or chemical safety goggles. Follow the eye- and face-protection guidelines of 29 CFR 1910.133. Gloves: West impervious gloves to prevent prolonged skin contact. Respirator: In routine industrial conditions, special respirator protection may not be needed. For emergency or nonroutine exposures where excessive dust or vapor levels may exist, use a respirator approved by NIOSH. Ventilation: lostall and operate ventilation systems that control airborne concentrations of this material at a level that does not interfere with the worker's safety, comfort, or productivity.

Safety Stations: Make eyewash stations, washing facilities, and rafety showers available in areas of use and handling. Contaminated Equipment: Contact lesses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them. Particles may cling to contact lenses and cause corocal injury. Do not wear contact lenses in any work area. Remove contaminated clothing and launder it before wearing it again; clean this material from shoes and equipment.

Comments: Practice good personal hygiene; always wash thoroughly after using this material. Kusp it off of your clothing and equipment. Avoid transferring it from hands to mouth white eating, drinking, or smoking. Do not smoke, est, or drink in any work area. Avoid prolonged skin contact with this material or inhabition of its dust.

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

Storage Segregation: Store bromthymol blue in closed containers in a cool, dry, well-ventilated area away from heat, sparks, open flame, and strong oxidizers.

Special Handling/Storage: Protect containers from physical damage. Storage areas must meet OSHA requirements for combustible solids. All containers used in shipping or transferring operations must be electrically grounded to prevent static sparks. Build all storage facilities with an explosion-relief design to minimize damage from my explosion that may occur.

Comments: Do not smoke in any use or storage grees, Emptied containers retain product residues; handle them accordingly. Avoid prolonged contact with this material or generating its dust while working with it.

Transportation Data (49 CFR 172.101-2): Not Listed

References: 1, 5, 7, 73, 81-94, 103, CR/PJI

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Indust. Hygiene/Safety

Medical Review

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Material Safety Data Sheet

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No. 361 ETHYL ALCOHOL (Revision B)

Issued: October 1981 Revised: August 1987

RANGO (O) CORRESTA CON CONTROL O DE CONTROL MATERIAL NAME: ETHYL ALCOHOL DESCRIPTION(Origin/Uses); Used commercially in alcoholic beverages and industrially as a solvent; also as a uscful reagent in organic synthesis. OTHER DESIGNATIONS: Absolute Ethanel; Alcohol, Anhydrous; Alcohol, Dehydrated; Ethanol; Grain Alcohol; Methylcarbinol; C2H6O; NIOSH RTECS \$KQ6300000; CAS #0064-17-5. MANUFACTURER/SUPPLIER: Available from several suppliers, including: **HMIS** Captree Chemical Co., 445 Winding Road, Old Bethpage, NY 11804; H Telephone: (516) 752-9808 F 3 P 0 COMMENTS: Ethyl alcohol is a fire and explosion hazard. PPE-

		* Sec sect. 8	K.4
Ethyl Alcohol, CAS #0064-17-5; NIOSH RTECS #KQ6300000 Water H H H-C-C-OH H H H * The toxicity data given here is a representative list and is by no means exhaustive. In NIOSH RTECS additional toxicity data with references on reproductive, tumprisents, mutarism and invitation assumed to a superior of the superio	>M9 Relance	ACGIH Values 1987-88 TLV-TWA: 1000 ppm, =1900 mg OSHA PEL 1986 8-Hr TWA: 1000 ppm, 1900 mg/n TOXICITY DATA* Child, Oral, LDLo: 2000 mg/kg Man, Oral, TDLo: 50 mg/kg Man, Oral, TDLo: 1430 µg/kg Womm, Oral, TDLo: 256 g/kg (12	√m³

SECRIONERS IN CORRESPONDED IN COMPANION OF THE PROPERTY OF THE

Bolling Point ... 173.3 F (78.5 °C) Vupor Pressure ... 43 Torr at 68°F (20°C) Water Solubility ... 100% (Complete) Vapor Density (Air = 1) ... 1.6

Specific Gravity __ 0.789 at 68°F (20°C) Melting Point ... -173,38°F (-114.1°C) % Volatile by Volume ... ca 100 Molecular Weight ... 46,07 Grams/Mole

Appearance and odor: Colorless, flammable, volatile liquid; burning taste. COMMENTS: Ethyl alcohol's volatility is an inhalation and fire hazard.

SECTION 4. FIRE A	ND EXPLOSION DATA:		LOWER	UPPER
Flash Point and Method	Autoignition Temperature	Flammability Limits in Air		
55°F (12.77°C)	798°F (422.78°C)	S by Volume	3,3%	19%
EXTINGUISHING MEDIA: Use dry chemical carbon dioxide, sizohol foam, or other appropriate extinguishing agents to fight				

clianol fires. A water spray is not recommended as an extinguishing agent, but it can be used to cool fire-exposed metal containers, to dilute and flush spills away from sensitive exposures, to suppress vapors, and to reduce the intensity of fires. OSHA Flammability Class (29 CFR 1910.106): IB

UNUSUAL PIRE/EXPLOSION HAZARDS: Eduanol is a dangerous fire and explosion hazard with a low flash point, appreciable vapor pressure, and a significant explosive range in air. Exercise due caution when fighting ethanol fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear a self-contained breathing apparatus with a full facepiers operated in a pressure-demand or other positive-pressure mode. DOT Flammability Class (49 CFR 173,115): Flammable Liquid

SECTION'S REACTIVITY DATA

Ethanol is stable. Hazardous polymerization cannot occur.

CHEMICAL INCOMPATIBIT. [TIES: Hazardous chemical reactions have been reported with exidizing agents, strong acids. nitrates, perchlorates, peroxides, silver and potassium compounds, and other chemicals.

CONDITIONS TO AVOID include exposure to elevated heat, any possible sources of ignition/explosion, such as heat, sparks, open flame, or lighted tobacco products; and direct physical contact with any chemicals that would produce hazardous resclions.

PRODUCTS OF HAZARDOUS DECOMPOSITION include exides of carbon, such as curbon modexide (CC).

SECTION 6. HEALTH HAZARD INFORMATION

Ethanol is not listed as a carcinogen by the NTP, IARC, or OSHA

SUMMARY OF RISKS: Pthanol varior, even in low concentrations, is irritating to the eyes and the upper respiratory tract. In soliting the TLV-TWA of 1000 ppm (~1900 mg/m²), this irritant property of ethanol is more significant than the accordancy concentrations of 5000 ppm; 1000 ppm is close to the odor recognition threshold of ethanol. Inhalation of ethanol appears can have effects from absorber of measurements of ingestion. These include an initial stimulatory effect followed by symptoms can have effects similar to those characteristic of ingestion. These include an initial stimulatory effect followed by symptoms of mental excitement, drowsiness, impaired vision, ataxia, suppor, and drunkenness as the amount contumed increases. Large of mental excitement, drowsiness, impaired vision, ataxia, suppor, and drunkenness as the amount contumed increases. Large burning and stanging acostation. Prolonged or repeated skin contact causes defatting and demantics. TARGET ORGANS. Eyes, skin, respiratory system, and hepatic system.

PRIMARY ENTRY: Inhalation, ingestion, skin contact. ACUTE
EYES, this, respiratory system, and hepatic system.

PRIMARY ENTRY: Inhalation, ingestion, skin contact. ACUTE
EXPECTS: Alaxia, incorrelination, drowsiness, local irritating effects on the eyes, headache, intraocular consistent. ACUTE
EXPECTS: Alaxia, incorrelination, drowsiness, local irritating of feets on the eyes, headache, intraocular consistent at the expert of the structure of the mucous membranes and the acut.

FIRSTAD: ETC.ONTACT: Immediately flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes. Get medical help.*

SKIN CONTACT: Wash thoroughly with acap and water.

Remove and launder contaminated clothing before wearing it agant; clean maserial from shoes and ortunement. Get medical help.*

SKIN CONTACT: Wash thoroughly with acap and water.

INGESTION: Call a poison control center. Never give anything b Significant Contract

modical help.

• GET MEDICAL ASSISTANCE = IN PLANT, PARAMEDIC, COMMUNITY. Get prompt medical assistance for further treatment, observation, and support after first aid.

COMMENTS: individual tolerance, amount of rest, medication, and daily eating habits are just some of the contributing factors that determine a worker's response to ethanol exposure. Provide physical examinations emphasizing the lungs, skin, the respiratory system and hepatic system to workers who are exposed to ethanol.

SECTION 7: SPILL, BEAR AND DISPOSAL PROCEDURES

SPILIJ FAK: Notify safety personnel of spills or leaks of ethanol. Provide maximum explosion proof ventilation, Eliminate all possible sources of heat or ignition; if feasible, remove any leaking container as an open area. Cleimup personnel need protection against inhalation and stin contact. Use nonsparking trois during all cleanup procedures. Contain spill and pick up liquid for recovery or disposal when feasible. Absorb annul spills with dry sand, vermiculite, or other suitable material. Consider diluting a spill with water to raise the material's flash point. DISPOSAL: Consider reclamation, recycling or destruction rather than disposal in a landfill, Filtration and distillation procedures may help reclamation operations. Contact regulations.

Ethanol is not designated as a hazardous substance by the EPA (40 CFR 116.4). Ethanol is reported in the 1983 EPA TSCA Inventory. EPA Hazardous Waste No. (40 CFR 261.21, Ignitability); D001 EPA Reportable Quantity (40 CFR 117.3); Not Listed Aquatic Toxicity TLan 95; Over 1000 ppm

SECTIONS SPECIAL PROTECTION INFORMATION
GOOD ES: Always wear protective eyes lasses on chemical safety goggles. Follow the eye and face protection guidelines of 29 CFR 1910.133. GLOVES: West impervious gloves. RESPIRATOR: Follow the respirator guidelines in 29 CFR 1910,134. IDLH or unknown concentrations require an SCBA, full facepieze, and pressure-demand/positive-pressure modes. WARNING: Air-purifying respirators will not protect workers from oxygen-deficient atmospheres. OTHER EQUIPMENT: Wear rubber boots, aprous, and other appropriate personal protective equipment suitable to the work situation, VENTILATION: Use and operate both general and local exhaust ventilation systems that are of sufficient power to maintain sirbonic levels of ethanel below the legislated OSHA PEL cited in section 2. Local exhaust hoods should have a minimum face velocity of 100 lfm. All ventilation systems should be nonspecking and of maximum explosion-proof design. SAFETY STATIONS: Make eyewash stations, washing facilities, and safety showers available in areas of use and handling. Contact legiscs pose a special hazard; soft lenses may absorb irritants, and all legiscs concentrate them. SPECIAL CONSIDERATIONS: All engineering systems and operations should be made explosion proof by eliminating machanical or electrical sparks, open flame, and uncovered or unprotected heating elements. COMMENTS: Practice good personal hygiene. Keep materials off of your clothes and equipment. Avoid transferral of material from hands to mouth while exting, drinking, or smoking. Do mat amoke anywhere near the work areas where ethanol is used!

SECTION 9 SPECIAL PREGAUTIONS AND COMMENTS

STORAGE SEGREGATION: Separate ethanol in rightly closed containers in a cool, dry, well-ventilated area away from chemically incompatible materials. Do not expose it to direct sunlight or sources of heat or ignition. SPECIAL HANDLING/STORAGE: Electrically ground and bond all containers involved in storage or transferring operations to prevent static sparks. Use nonsparking tools. Protect containers from physical damage. Storage and use conditions must be suitable for an OSHA class IB flammable liquid. ENGINPERING CONTROLS IN THE WORKPLACE: Use ethanol only with adequate ventilation. COMMENTS: Avoid repeated or prolonged skin contact or inhalation of vapors. Use only with edequate ventilation and eliminate all sources of hazardous or unintended ignition. Exposure to ethenol enhances toxicity hazards of other materials such as chlorinated hydrocarbon solvents or drugs.

TRANSPORTATION DATA (per 49 CFR 172,101-2);

DOT Hazard Class: Flammable Liquid

DOT ID No. UN1170

IMO Label: Planmable Liquid

DOT Shipping Name; Ethyl Alcohol

IMO Class: 3.2

DOT Label: Planmable Liquid

References: 1, 2, 4-12, 16, 20, 23-26, 34, 37, 38, 42, 47, 73, 87-94. PI

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DATE: 05/11/95

CUST#: 6-049-31420

PAGE

MATERIAL SAFETY DATA SHEET

SECTION 1. - - - - - - - CHEMICAL IDENTIFICATION- -

PRODUCT #: P4633 NAME: PHENOL RED FREE ACID
SECTION 2. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - -

CAS #:143-74-8 MF: C19H1405S1

_SYNONYMS__

FENOLIPUNA * PHENOL, 4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE)BIS-, S,S-DIOXIDE (9CI) * PHENOL RED * PHENOLSULFONEPHTHALEIN *

PHENOLSULFONPHTHALEIN # PHENOLSULPHONPHTHALEIN # PSP * PSP (INDICATOR)

* SULFONPHTHAL * SULPHENTAL * SULPHONTHAL *

SECTION 3. - - - - - - - - HAZARDS IDENTIFICATION - - - -

LABEL PRECAUTIONARY STATEMENTS

IRRITANT

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. - - - - - - - FIRST-AID MEASURES-

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. - - - - - - FIRE FIGHTING MEASURES -

EXTINGUISHING MEDIA

WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

CONTINUED ON NEXT PAGE

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MATERIAL SAFETY DATA SHEET PAGE ; DATE: 05/11/95 CUST#: 6-049-31420 PRODUCT #: P4633 NAME: PHENOL RED FREE ACID SECTION 6. - - - - - - - - ACCIDENTAL RELEASE MEASURES- - -WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. SECTION 7. - - - - - - - HANDLING AND STORAGE- - - - - - - -REFER TO SECTION 8. SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - -CHEMICAL SAFETY GOGGLES. COMPATIBLE CHEMICAL-RESISTANT GLOVES. NIOSH/MSHA-APPROVED RESPIRATOR. SAFETY SHOWER AND EYE BATH. MECHANICAL EXHAUST REQUIRED. DO NOT BREATHE DUST. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. IRRITANT. KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE. SECTION 9, - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - -APPEARANCE AND ODOR RED TO DARK-RED POWDER SECTION 10. - - - - - - - - - STABILITY AND REACTIVITY - - - -STRONG OXIDIZING AGENTS

CONTINUED ON NEXT PAGE

THE RESERVE OF THE PARTY OF THE

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE

TOXIC FUMES OF:

SULFUR OXIDES

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MATERIAL SAFETY DATA SHEET PAGE
DATE: 05/11/95
PRODUCT #: P4633 NAME: PHENOL RED FREE ACID CUST#: 6-049-31420
SECTION 11 TOXICOLOGICAL INFORMATION
ACUTE EFFECTS MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. CAUSES EYE AND SKIN IRRITATION. MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.
PHENOL, 4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE)DI-, \$,5-DIOXIDE TOXICITY DATA ORL-RAT LD50:>600 MG/KG SCU-RAT LD50:>600 MG/KG IVN-RAT LD50:752 MG/KG IVN-MUS LD50:1368 MG/KG ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION. SECTION 12 ECOLOGICAL INFORMATION
SECTION 13 DISPOSAL CONSIDERATIONS
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. SECTION 14 TRANSPORT INFORMATION
CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.
ECTION 15, REGULATORY INFORMATION
CONTINUED ON NEXT PAGE

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MATERIAL SAFETY DATA SHEET

PAGE

DATE: 05/11/95

CUST#: 6-049-31420

PRODUCT #: P4633

NAME: PHENOL RED FREE ACID

REVIEWS, STANDARDS, AND REGULATIONS

NOHS 1974: HZD 82224; NIS 16; TNF 1719; NOS 13; TNE 5387 NOES 1983: HZD 82224; NIS 18; TNF 1763; NOS 23; TNE 23057; TFE 12330

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: B SUBTILIS REC ASSAY

EPA TSCA CHEMICAL INVENTORY, JUNE 1993

SECTION 16 OTHER INFORMATION-

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