

SYRACUSE CITY SCHOOL
USE ACCOUNT #419643002
DO NOT USE
SYRACUSE ,NY 13204-2749



SAFETY DATA SHEET (SDS)

IMPORTANT SAFETY INFORMATION - DO NOT DISCARD
PLEASE ROUTE TO COMPANY SAFETY OFFICER

SYRACUSE CITY SCHOOL
USE ACCOUNT #419643002
DO NOT USE
SYRACUSE ,NY 13204-2749
G53241415 - PO# SCSDD1-0000038750

MAIL ORDER

Fisher Scientific has updated the (M)SDSs to SDSs in compliance with the Globally Harmonized Standard or GHS requirements as adopted by OSHA, CFR 29, 1910.1200. The new Hazard Communication Standard requires all manufacturers to provide the updated SDSs to customers beginning June 1st, 2015. The new SDSs are also available on FisherSci.com

Please consider receiving your SDSs via EMAIL!

Update your contact information below:

Account Number: _____

SDS Address: _____

Phone Number: _____

Fax Number: _____

* YES, E-MAIL SDSs to address(es): _____

If you have any additional changes for the contact person or address corrections please send them to EMSDS_RA@thermolisher.com or fax to Fax number: 412-490-8098

REQUIRED SAFETY DATA SHEETS (SDS) NOT INCLUDED IN THIS MAILING WILL FOLLOW UNDER SEPARATE COVER. THIS PACKET MAY CONTAIN SDS FOR PRODUCTS MANUFACTURED BY OTHER COMPANIES AND DISTRIBUTED BY FISHER SCIENTIFIC. THESE SDS WERE PREPARED BY THE MANUFACTURER AND FISHER SCIENTIFIC DISCLAIMS ALL LIABILITY FOR THEIR CONTENT.

IF YOU REQUIRE ADDITIONAL SDS INFORMATION, PLEASE VISIT OUR WEB AT:

Fishersci.com

SDSs enclosed:

MSDS enclosed for:

Product Id	Product name
100000000109693	Fisher Bio-Fresh Preserved Specimens - Cats, Rats, Rabbits, Minks



Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Revision Date 19-Aug-2015

Revision Number 2

Product Name

Fisher Bio-Fresh Preserved Specimens - Cats, Rats, Rabbits, Minks

1. Identification

Cat No. :

S1037S, S1038S, S1039S, S1043S, SS1057S, S1059S, S1060S, S1154S, S1802S, S1802S, S1802S, S1805S, S1807S, S1810S, S1811S, S1812S, S1813S, S1814S, S1815S, S1820S, S1825S, S1825S10, S1825VS, S1826S10, S1826VS, S1827S, S1827S10, S1827VS, S1828S, S1828VS, S1828S10, S1833S, S1851S, S1852S, S1853S, S1854S, S9212S, S9214S, S9215S, NC0812424, NC0882693, NC9939826

Synonyms

No information available

Recommended Use

Laboratory chemicals.

Uses advised against

No information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC® Inside the USA: 800-424-9300
CHEMTREC® Outside the USA: 001-703-527-3887

2. Hazard(s) Identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Carcinogenicity	Category 1A

Label Elements

Signal Word
Danger

Hazard Statements
Harmful if swallowed
Harmful in contact with skin

Fisher Bio-Fresh Preserved Specimens - Cats, Rats, Rabbits, Minks

Revision Date 19-Aug-2015



Harmful if inhaled
Causes eye irritation
Causes skin irritation
May cause an allergic skin reaction
May cause cancer

Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
Call a POISON CENTER or doctor/physician if you feel unwell
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
Call a POISON CENTER or doctor/physician if you feel unwell
Take off contaminated clothing and wash before reuse
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
If skin irritation or rash occurs: Get medical advice/attention
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists. Get medical advice/attention
Ingestion
Rinse mouth
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Hazards not otherwise classified (HNOC)
None identified

3. Composition / Information on ingredients

Component	CAS-No	Weight %
Water	7732-18-5	balance
1,2-Propylene glycol	57-55-6	<10
Ethylene glycol monophenyl ether	122-99-6	<2
Formaldehyde	50-00-0	0.1-0.7
Phenol	108-95-2	<0.06
Methyl alcohol	67-56-1	<0.04

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects No information available.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Flammable Extinguishing Media Dry chemical, Carbon dioxide (CO₂), Water spray, Foam.

Unsuitable Extinguishing Media No information available

Flash Point Not applicable

Method - No information available

Autoignition Temperature No information available

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 2 **Flammability** 1 **Instability** 0 **Physical hazards** N/A

6. Accidental release measures

Personal Precautions

Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Avoid contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Up Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

7. Handling and storage

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Do not breathe vapors or spray mist. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Formaldehyde	Ceiling: 0.3 ppm	(Vacated) TWA: 3 ppm (Vacated) STEL: 10 ppm (Vacated) Ceiling: 5 ppm TWA: 0.75 ppm STEL: 2 ppm	IDLH: 20 ppm TWA: 0.016 ppm Ceiling: 0.1 ppm
Phenol	TWA: 5 ppm Skin	(Vacated) TWA: 5 ppm Skin TWA: 19 mg/m ³	IDLH: 250 ppm TWA: 5 ppm TWA: 19 mg/m ³ Ceiling: 15.6 ppm Ceiling: 60 mg/m ³
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m ³ (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m ³ Skin TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWA/EV
1,2-Proylene glycol			TWA: 10 mg/m ³ TWA: 50 ppm TWA: 153 mg/m ³
Ethylene glycol monophenyl ether			TWA: 25 ppm TWA: 141 mg/m ³ Skin
Formaldehyde	Ceiling: 2 ppm Ceiling: 3 mg/m ³ TWA: 5 ppm TWA: 19 mg/m ³ STEL: 10 ppm Skin	Ceiling: 2 ppm Ceiling: 3 mg/m ³ TWA: 5 ppm TWA: 19 mg/m ³ STEL: 10 ppm Skin	STEL: 1.0 ppm CEV: 1.5 ppm TWA: 5 ppm Skin
Phenol	TWA: 5 ppm TWA: 19 mg/m ³ Skin	TWA: 5 ppm TWA: 19 mg/m ³ STEL: 10 ppm Skin	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Skin
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Skin	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 310 mg/m ³ Skin	TWA: 200 ppm STEL: 250 ppm Skin

Legend

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/Face Protection

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.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid containing liquid.
Appearance	Colorless Liquid
Odor	mild pungent
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No data available
Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	No information available
Flammability (solid/gas)	No information available
Flammability or explosive limits	No data available
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	No information available
Partition coefficient: n-octanol/water	No data available
Autoclave Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
VOC Content(%)	10.68

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity			
Component Information			
Water	LD50 Oral LD50 > 90 mL/kg (Rat)	LD50 Dermal Not listed	LC50 Inhalation Not listed
1,2-Propylene glycol	LD50 = 20 g/kg (Rat)	LD50 = 2080 mg/kg (Rabbit)	Not listed
Ethylene glycol monophenyl ether	LD50 = 1260 mg/kg (Rat)	LD50 = 5 mL/kg (Rabbit)	Not listed
Formaldehyde	500 mg/kg (Rat)	LD50 = 270 mg/kg (Rabbit)	0.578 mg/L (Rat) 4 h
Phenol	LD50 = 340 mg/kg (Rat) LD50 = 317 mg/kg (Rat)	LD50 = 630 mg/kg (Rabbit)	LC50 = 316 mg/m ³ (Rat) 4 h
Methyl alcohol	LD50 = 6200 mg/kg (Rat)	LD50 = 15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Toxicologically Synergistic	No information available		

Products Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Irritating to eyes and skin May cause irritation of respiratory tract
Sensitization	May cause sensitization by skin contact
Carcinogenicity	This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Component	CAS-No	IARC	MTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
1,2-Propylene glycol	57-55-6	Not listed	Not listed	Not listed	Not listed	Not listed
Ethylene glycol monophenyl ether	122-99-6	Not listed	Not listed	Not listed	Not listed	Not listed
Formaldehyde	50-00-0	Group 1	Known	A2	X	A2
Phenol	108-95-2	Not listed	Not listed	Not listed	Not listed	Not listed
Methyl alcohol	67-58-1	Not listed	Not listed	Not listed	Not listed	Not listed

IARC: (International Agency for Research on Cancer)

MTP: (National Toxicity Program)

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

- A1 - Confirmed Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Confirmed Animal Carcinogen
- A4 - Not Classifiable as a Human Carcinogen
- A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure	None known
STOT - repeated exposure	None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity					
Do not empty into drains.					
Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
1,2-Propylene glycol	EC50: = 19000 mg/L, 96h	LC50: = 710 mg/L, 96h	= 710 mg/L EC50	EC50: > 10000 mg/L, 24h	

Ethylene glycol monophenyl ether	(Pseudokirchneriella subcapitata)	(Pimephales promelas) static LC50 = 51400 mg/L, 96h (Pimephales promelas) static LC50: 41 - 47 mg/L, 96h (Oncorhynchus mykiss) static LC50: = 51600 mg/L, 96h (Oncorhynchus mykiss)	Photobacterium phosphoreum 30 min	(Daphnia magna) EC50 > 1000 mg/L, 48h (Daphnia magna)
Formaldehyde	Not listed	Leuciscus idus: LC50 = 15 mg/L, 96h	Not listed	EC50 = 20 mg/L, 96h EC50 = 2 mg/L, 48h
Phenol	EC50: 187 - 279 mg/L, 72h static (Uesmodermus subspicatus) EC50: 0.0188 - 0.1044 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50 = 46.42 mg/L, 96h (Pseudokirchneriella subcapitata)	4.7 mg/L LC50 96 h 32 mg/L LC50 96 h EC50 = 23.28 mg/L, 5 min EC50 = 23.61 mg/L, 15 min EC50 = 28.8 mg/L, 5 min EC50 = 31.6 mg/L, 15 min	EC50 21 - 36 mg/L, 30 min EC50 = 23.28 mg/L, 5 min EC50 = 23.61 mg/L, 15 min EC50 = 28.8 mg/L, 5 min EC50 = 31.6 mg/L, 15 min	EC50: 10.2 - 15.5 mg/L, 48h (Daphnia magna) EC50: 4.24 - 10.7 mg/L, 48h (Daphnia magna)
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L, 96h	EC50 = 38000 mg/L, 25 min EC50 = 40000 mg/L, 15 min EC50 = 43000 mg/L, 5 min	EC50 > 10000 mg/L, 24h

Persistence and Degradability
No information available.

Bioaccumulation/ Accumulation
No information available.

Mobility
No information available.

Component	log Pow
1,2-Propylene glycol	-0.9
Ethylene glycol monophenyl ether	1.13
Formaldehyde	-0.35
Phenol	1.47
Methyl alcohol	-0.74

13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Formaldehyde - 50-00-0	U122	-
Phenol - 108-95-2	U188	-
Methyl alcohol - 67-56-1	U154	-

14. Transport information

DOT	Not regulated
IDG	Not regulated
LATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

All of the components in the product are on the following inventory lists: Australia X = listed China Canada The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Europe TSCA Korea Philippines

International Inventories

Component	TSCA	DSL	NDSL	ENECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSG	KECL
Water	X	X	-	231-791-2	-	-	X	X	X	X	X
1,2-Propylene glycol	X	X	-	200-338-0	-	-	X	X	X	X	X
Ethylene glycol monophenyl ether	X	X	-	204-589-7	-	-	X	X	X	X	X
Formaldehyde	X	X	-	200-001-8	-	-	X	X	X	X	X
Phenol	X	X	-	203-632-7	-	-	X	X	X	X	X
Methyl alcohol	X	X	-	200-659-6	-	-	X	X	X	X	X

Legend:
 X - Listed
 - - Indicates a substance that is the subject of a Section 5(f) Consent order under TSCA.
 F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
 N - Indicates a polymer substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
 P - Indicates a commercial PMN substance.
 R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
 S - Indicates a substance that is identified in a proposed or final Significant New Use Rule.
 T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
 XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(b)).
 Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
 Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Ethylene glycol monophenyl ether	122-99-6	<2	1.0
Formaldehyde	50-00-0	0.1-0.7	0.1
Phenol	108-95-2	<0.06	1.0
Methyl alcohol	67-56-1	<0.04	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
 Chronic Health Hazard Yes
 Fire Hazard No
 Sudden Release of Pressure Hazard No
 Reactive Hazard No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities 100 lb	CWA - Toxic Pollutants	CWA - Priority Pollutants
Formaldehyde	X	1000 lb	X	X
Phenol	X	1000 lb	X	X

Clean Air Act

Component	Not applicable	HAPS Data	Class 1 Ozone Depleters	Class 2 Ozone Depleters
Ethylene glycol monophenyl ether	Not applicable	X	-	-

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Formaldehyde	X			
Phenol	X			
Methyl alcohol	X			

OSHA Occupational Safety and Health Administration
Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Formaldehyde	2 ppm STEL 0.5 ppm Action Level 0.75 ppm TWA	TC: 1000 lb

CERCLA
Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Formaldehyde	100 lb	100 lb
Phenol	1000 lb	1000 lb
Methyl alcohol	5000 lb	

California Proposition 65 This product does not contain any Proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Formaldehyde	50-00-0	Carc. (Acute only)	40 µg/day	Carcinogen
Methyl alcohol	67-56-1	Developmental		Developmental

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	X	X	-	-
1,2-Proylene glycol	-	X	X	X	X
Ethylene glycol	-	X	X	X	X
monophenyl ether	-	X	X	X	X
Formaldehyde	X	X	X	X	X
Phenol	X	X	X	X	X
Methyl alcohol	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ):
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Component	DHS Chemical Facility Anti-Terrorism Standard
Formaldehyde	11250 lb STQ (solution)

Other International Regulations

Mexico - Grade No information available

Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D1B Toxic materials
D2A Very toxic materials
D2B Toxic materials

Fisher Bio-Fresh Preserved Specimens - Cats, Rats, Rabbits, Minks

Revision Date 19-Aug-2015



16. Other information

Prepared By

Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date

19-Aug-2015

Print Date

19-Aug-2015

Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS