

SAFETY DATA SHEET

SECTION 1

PRODUCT NAME:
GENERIC DESCRIPTION:
SUPPLIED BY:
FORMULA:
RECOMMENDED USE:
USES ADVISED AGAINST:

PRODUCT & COMPANY IDENTIFICATION

DEXTRAN SOLUTION WITH PRESERVATIVE 1M MW
Dextran Solution with Preservatives 1M MW
BioSpectra Canada Inc. O/A Dextran Products
 $(C_6H_{10}O_5)_{n+1}$
Laboratory Chemicals
No Information available

Details of the supplier of the safety data sheet:

Company:
BioSpectra Canada Inc.
O/A Dextran Products
421 Comstock Rd
Scarborough, Ontario
M1L 2H5

Emergency Telephone Number:
416-755-2231

SECTION 2

POTENTIAL HEALTH EFFECTS:

HAZARDOUS IDENTIFICATION
Material is stabilized with 2-Phenoxyethanol.

CLASSIFICATION:

Classification under 2012 OSHA Hazard Communication
(29 CFR 1910.1200)

LABEL ELEMENTS:

Not required

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC): None identified

SECTION 3

COMPONENTS:

COMPOSITION

1. Water – CAS #7732-18-5
2. Solid Matter (Mainly Dextran)– CAS #9004-54-0
3. 2-Phenoxyethanol – 0.9% w/w – CAS #122-99-6 (See attached SDS)

SECTION 4

INSTRUCTIONS

FIRST-AID MEASURES

EYES:

Flush eyes with large amounts of water for at least 15 minutes. Hold the eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Obtain immediate medical attention.

SKIN:

Wipe off and flush with water.

INHALATION:

Remove victim from further exposure and restore breathing, if required.

INGESTION:

Do not take internally, Rinse mouth with large amounts of water. Seek medical help.

MOST IMPORTANT SYMPTOMS/EFFECTS: No information available.

NOTES TO PHYSICIAN:

Treat symptomatically.

SECTION 5

FLAMMABILITY:

EXTINGUISHING MEDIA:

SPECIAL PROCEDURES:

FLASH POINT:

AUTO IGNITION TEMPERATURE:

T.D.G. FLAM. CLASS:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

HAZARDOUS COMBUSTION PRODUCTS:

EXPLOSION DATA

MAX. PRES. OUTPUT:

MAX. PRES. RISE RATE:

DEFLAGRATION INDEX:

DISCHARGE

SENSITIVITY TO IMPACT:

RATE OF BURNING:

FIRE-FIGHTING MEASURES

Care should be taken since material contains carbohydrates.

Water spray, CO₂, Dry Chemical or Foam

Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Not applicable.

Not available.

Not regulated.

None known.

None known.

This liquid may form an explosive mixture under the right conditions since it contains carbohydrates

Not available

Not available

Not applicable.

Not available.

UNSUITABLE EXTINGUISHING MEDIA: No information available

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Keep product and empty container away from heat and sources of ignition.

HAZARDOUS COMBUSTION PRODUCTS: None known.

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

1

Flammability

1

Instability

0

Physical Hazards

N/A

SECTION 6

PERSONAL PRECAUTIONS

ENVIRONMENTAL PRECAUTIONS:

LEAK/SPILL:

ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

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

Use absorbent material to collect and contain for salvage or disposal according to local laws.

SECTION 7

HANDLING PROCEDURES AND EQUIPMENT:

HANDLING AND STORAGE

Maintain good personal hygiene, any gross amount of chemical should be removed from the skin as

soon as possible, especially before eating or smoking. Wear personal protective equipment. Ensure ventilation. Avoid contact with skin, eye, and clothing.

STORAGE NEEDS: Store in a cool dry place away from heat and ignition sources.

SECTION 8
PROTECTION

EXPOSURE CONTROLS/PERSONAL

GLOVES/TYPE:	Butyl rubber gloves.
RESPIRATOR/TYPE:	In the absence of proper environmental controls, an approved dust mask is recommended.
EYE/TYPE:	Chemical safety goggles.
FOOTWEAR/TYPE:	Safety boots.
CLOTHING/TYPE:	Normal protective overalls.
OTHER/TYPE:	Safety Showers and Eye Wash Stations.
ENGINEERING CONTROLS:	Electrical and mechanical equipment should be explosion and dust proof. Exhaust equipment is recommended over the work area with make up air to balance air exhausted.
EYE/ PROTECTION:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection in 29 CFR 1910.133 or European standard EN166.
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.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Cream coloured liquid.
ODOR:	None.
BOILING POINT:	100C.
FREEZING POINT:	0C.
pH:	4.0 – 8.0
SPECIFIC GRAVITY:	1.0 to 1.2.
SOLUBILITY IN WATER:	Complete.
MELTING POINT/RANGE:	No data available.
FLASH POINT:	No data available.
EVAPORATION RATE:	Negligible.
FLAMMABILITY (solid, gas):	No information available.

FLAMMABILITY or EXPLOSIVE LIMITS:

UPPER:	No data available
LOWER:	No data available
VAPOR PRESSURE:	Negligible.
VAPOR DENSITY:	No information available.
RELATIVE DENSITY:	No information available.
SOLUBILITY:	Soluble in water.
PARTITION COEFFICIENT; n-octanol/water:	No data available.
AUTOIGNITION TEMPERATURE:	No information available.

DECOMPOSITION TEMPERATURE: No information available.
VISCOSITY: No information available.

SECTION 10

STABILITY AND REACTIVITY

CHEMICAL STABILITY:

Stable.

COMPATIBILITY WITH OTHER SUBSTANCES:

Mixing with any other chemical should be avoided or discussed first with supplier.

REACTIVITY CONDITIONS:

Avoid excessive heat, open flames and all ignition sources.

HAZARDOUS POLYMERIZATION:

Not available.

HAZARDOUS PRODUCTS OF DECOMPOSITION:

None known.

REACTIVE HAZARD:

None known.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents.

SECTION 11

TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY

SKIN CONTACT:

Little known effect.

SKIN ABSORPTION:

Little known effect.

EYE CONTACT:

Can cause irritation.

INHALATION:

Can cause irritation to lungs.

INGESTION:

May cause irritation.

EFFECTS OF ACUTE EXPOSURE:

None known.

EFFECTS OF CHRONIC EXPOSURE:

None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

Lung or breathing problems may be aggravated.

LD 50 OF MATERIAL:

Not available.

CARCINOGENICITY:

Not available.

REPRODUCTIVE EFFECTS:

Not available.

ENVIRONMENTAL TOXICITY:

Not available.

CARCINOGENICITY: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Dextran	9004-54-0	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

SECTION 12

ECOLOGICAL INFORMATION

TOXICITY:

No data available

PERSISTENCE & DEGRADABILITY:

No data available

BIOACCUMULATIVE POTENTIAL:

No data available

MOBILITY IN SOIL:

No data available

PBT and vPvB ASSESSMENT:

No data available

OTHER ADVERSE EFFECTS:

No data available

SECTION 13

WASTE DISPOSAL:

DISPOSAL CONSIDERATION

All local, provincial and federal regulations concerning health and pollution must be reviewed to determine the approved disposal procedures.

CONTAMINATED PACKAGING:

Dispose of as unused product.

SECTION 14

BASIC SHIPPING INFO:

TRANSPORT INFORMATION

Not dangerous goods.

SECTION 15

WHMIS CLASSIFICATION:

REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulation.

INTERNATIONAL INVENTORIES:

Component:	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC
KECL										
Dextran	X	X	-	232-677-5	-	TBD	X	X	X	X

Legend:

X-Listed

E- Indicates a substance that is the subject of a section 5(e) Consent order under TSCA.

F- Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N- Indicates a polymeric 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 commenced 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 concerns 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

SARA 311/312 Hazardous Categorization

Acute Health Hazard: No

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

CLEAN WATER ACT: No

CLEAN AIR ACT: No

OSHA: Occupational Safety and Health Administration: Not Applicable

CERCLA: Not Applicable

U.S. DEPARTMENT of TRANSPORTATION:

Reportable Quantity (RQ): N

DOT Marine Pollutant: N

DOT Severe Marine Pollutant: N

WHMIS Hazard Class: Non-controlled

SECTION 16

OTHER INFORMATION

EMERGENCY TELEPHONE NUMBER:

416-755-2231

PREPARED BY:

BioSpectra Canada Inc. O/A Dextran Products

DATE:

June 8, 2024

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user must review these recommendations in the specific context of the intended use and determine whether they are appropriate.

SAFETY DATA SHEET

Creation Date 16-Nov-2010

Revision Date 30-May-2022

Revision Number 5

1. Identification

Product Name 2-Phenoxyethanol

Cat No. : AC130240000; AC130240010; AC130240025; AC130240050;
AC130240051; AC130240250; AC130242500

CAS No 122-99-6
Synonyms Ethylene glycol monophenyl ether

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

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

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number US:001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure) Target Organs - Respiratory system.	Category 3

Label Elements

Signal Word
Danger

Hazard Statements
Harmful if swallowed

Causes serious eye damage
May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Ethylene glycol monophenyl ether	122-99-6	<= 100

4. First-aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects	Causes severe eye damage.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point 130 °C / 266 °F

Method - No information available

Autoignition Temperature 430 °C / 806 °F

Explosion Limits

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

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
3

Flammability
1

Instability
0

Physical hazards
N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Storage. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents. Acid anhydrides. Acid chlorides.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	aromatic
Odor Threshold	No information available
pH	8-9 10g/100ml water/MeOH
Melting Point/Range	11 - 13 °C / 51.8 - 55.4 °F
Boiling Point/Range	237 °C / 458.6 °F @ 760 mmHg
Flash Point	130 °C / 266 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	0.04 mbar @ 20 °C
Vapor Density	4.8 (Air = 1.0)
Specific Gravity	1.100
Solubility	30 g/L @ 20 °C
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	430 °C / 806 °F
Decomposition Temperature	No information available
Viscosity	29 mPa s at 20 °C
Molecular Formula	C8 H10 O2
Molecular Weight	138.17

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents, Acid anhydrides, Acid chlorides
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

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol monophenyl ether	LD50 = 1850 mg/kg (Rat)	LD50 = 5 mL/kg (Rabbit)	LC50 > 0.057 mg/L (Rat) 8 h

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Toxicologically Synergistic Products No information available

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

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Ethylene glycol monophenyl ether	122-99-6	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

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

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethylene glycol monophenyl ether	EC50: > 500 mg/L, 72h (Desmodesmus subspicatus)	LC50: = 366 mg/L, 96h static (Pimephales promelas) LC50: 337 - 352 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 32.4 mg/L 5 min EC50 = 880 mg/L 17 h	EC50: > 500 mg/L, 48h (Daphnia magna)

Persistence and Degradability Persistence is unlikely

Bioaccumulation/ Accumulation No information available.

Mobility . Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Ethylene glycol monophenyl ether	1.2

13. Disposal considerations

Waste Disposal Methods 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.

14. Transport information

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ethylene glycol monophenyl ether	122-99-6	X	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Ethylene glycol monophenyl ether	122-99-6	X	-	204-589-7	X	X	X	X	X	KE-28257

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Ethylene glycol monophenyl ether	122-99-6	<= 100	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ethylene glycol monophenyl ether	X		-

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

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

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylene glycol	-	X	X	X	-

monophenyl ether				
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U.S. Department of Transportation

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

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

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ethylene glycol monophenyl ether	122-99-6	-	Use restricted. See item 75. (see link for restriction details)	-

<https://echa.europa.eu/substances-restricted-under-reach>

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Ethylene glycol monophenyl ether	122-99-6	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Ethylene glycol monophenyl ether	122-99-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

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

Creation Date 16-Nov-2010
Revision Date 30-May-2022
Print Date 30-May-2022
Revision Summary SDS sections updated.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS