

SAFETY DATA SHEET

SECTION 1

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

PRODUCT & COMPANY IDENTIFICATION

NATIVE DEXTRAN (GG 500PP)
Native Dextran: Twice Precipitated Dextran Liquid
BioSpectra Canada Inc. O/A Dextran Products
(C₆H₁₀O₅)_{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 SPEC-AID 8Q5700ULS.

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. SPEC-Aid 8Q5700ULS – 0.2% (v/v) – CAS #111-30-8
(Please see attached SDS for Component 3)

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 SYMTOMS/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.

NEPA

Health

1

Flammability

1

Instability

0

Physical Hazards

N/A

SECTION 6

PERSONAL PRECAUSTIONS

ENVIRONMENTAL PRECAUTIONS:

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.

LEAK/SPILL:

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

SECTION 7

HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT:

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

EXPOSURE CONTROLS/PERSONAL PROTECTION

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	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:

August 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

SPEC-AID* 8Q5700ULS

1. Identification

Product identifier SPEC-AID 8Q5700ULS
Other means of identification None.
Recommended use Biocide
Recommended restrictions None known.

Company/undertaking identification

SUEZ WTS USA, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355 3300, F 215 953 5524

Emergency telephone

(800) 877 1940

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards
Acute toxicity, oral Category 3
Acute toxicity, dermal Category 4
Acute toxicity, inhalation Category 4
Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1
Sensitization, respiratory Category 1B
Sensitization, skin Category 1B
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation
OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Toxic if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Precautionary statement

Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response	If swallowed: Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Components	CAS #	Percent
Glutaraldehyde	111-30-8	40 - 60

Composition comments Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Nausea, vomiting. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing. May cause allergic respiratory reaction.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. See Section 8 of the SDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Glutaraldehyde (CAS 111-30-8)	Ceiling	0.05 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Glutaraldehyde (CAS 111-30-8)	Ceiling	0.8 mg/m3
		0.2 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles and face shield are recommended.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Suitable gloves can be recommended by the glove supplier. Glove selection must take into account any solvents and other hazards present.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties**Appearance**

Color Colorless to yellow

Physical state Liquid

Odor Slight acid

Odor threshold Not available.

pH (concentrated product) 3.5

pH in aqueous solution 4.4 (5% SOL.)

Melting point/freezing point 1 °F (-17 °C)

Initial boiling point and boiling range Not available.

Flash point > 200 °F (> 93 °C) P-M(CC)

Evaporation rate < 1 (Ether = 1)

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 14.7 mm Hg

Vapor pressure temp. 70 °F (21 °C)

Vapor density > 1 (Air = 1)

Relative density 1.12

Relative density temperature 70 °F (21 °C)

Solubility(ies)

Solubility (water) 100 %

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 28 cps

Viscosity temperature 70 °F (21 °C)

Other information

Pour point 6 °F (-14 °C)

Specific gravity 1.116

VOC 45 % (Estimated)

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Amines.

Hazardous decomposition products Oxides of carbon evolved in fire.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Toxic if swallowed. Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Nausea, vomiting. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing.

Information on toxicological effects

Acute toxicity Toxic if swallowed. Harmful if inhaled. Harmful in contact with skin. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause an allergic skin reaction.

Product	Species	Test Results
SPEC-AID 8Q5700ULS (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	1812 mg/kg, (Calculated according to GHS additivity formula)
<i>Inhalation</i>		
LC50	Rat	1.78 mg/l, 4 Hour, (Calculated according to GHS additivity formula (Category 2))
<i>Oral</i>		
LD50	Rat	200 mg/kg, (Calculated according to GHS additivity formula (Category 3))

Components	Species	Test Results
Glutaraldehyde (CAS 111-30-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	0.28 mg/l, 4 Hour
<i>Oral</i>		
LD50	Rat	200 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

ACGIH sensitization

GLUTARALDEHYDE, ACTIVATED AND INACTIVATED (CAS 111-30-8) Dermal sensitization

Respiratory sensitization

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

Product		Species	Test Results
SPEC-AID 8Q5700ULS (CAS Mixture)			
	LC50	Fathead Minnow	13 mg/L, Static Renewal Bioassay, 96 hour
		Mysid Shrimp	15.7 mg/L, Flow-Thru Bioassay, 96 hour
		Sheepshead Minnow	71 mg/L, Flow-Thru Bioassay, 96 hour
	LOEC	Fathead Minnow	6.6 mg/L, Early Life Stage Test, 32 day
	NOEL	Fathead Minnow	8.6 mg/L, Static Renewal Bioassay, 96 hour
			3.2 mg/L, Early Life Stage Test, 32 day
		Mysid Shrimp	1.7 mg/L, Flow-Thru Bioassay, 96 hour
		Sheepshead Minnow	53 mg/L, Flow-Thru Bioassay, 96 hour

Aquatic

Crustacea	LC50	Daphnia magna	23.6 mg/L, Static Renewal Bioassay, 48 hour
	LOEL	Daphnia magna	17.7 mg/L, Chronic Bioassay, 21 day
	NOEL	Daphnia magna	17 mg/L, Static Renewal Bioassay, 48 hour
			9.7 mg/L, Chronic Bioassay, 21 day
Fish	LC50	Rainbow Trout	24 mg/L, Static Renewal Bioassay, 96 hour
	NOEL	Rainbow Trout	17 mg/L, Static Renewal Bioassay, 96 hour

Components		Species	Test Results
Glutaraldehyde (CAS 111-30-8)			
	LC50	Daphnia Magna	10 mg/l, 48 hour
		Fathead minnow	10.8 mg/l, 96 hour
Aquatic			
Algae	EC50	Algae	1.38 mg/l
Fish	LC50	Rainbow Trout	24 mg/l, 96 hour

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Glutaraldehyde -0.33

Mobility in soil No data available.

Other adverse effects Not available.

Persistence and degradability

- COD (mgO2/g)	981
- BOD 5 (mgO2/g)	0
- BOD 28 (mgO2/g)	500
- Closed Bottle Test (% Degradation in 28 days)	50
- Zahn-Wellens Test (% Degradation in 28 days)	10

13. Disposal considerations

Disposal instructions	Dispose of in approved pesticide facility or according to label instructions. Dispose of contents/container in accordance with local/regional/national/international regulations. Incinerate the material under controlled conditions in an approved incinerator. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN2922
UN proper shipping name	Corrosive liquids, toxic, n.o.s. (GLUTARALDEHYDE)
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ERG number	154
Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container classification.	

IATA

UN number	UN2922
UN proper shipping name	Corrosive liquid, toxic, n.o.s. (GLUTARALDEHYDE)
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1
Packing group	II
Environmental hazards	Yes
ERG Code	154
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

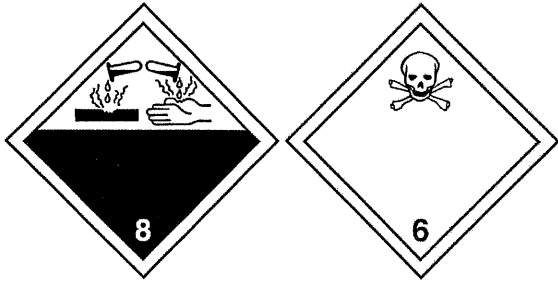
IMDG

UN number	UN2922
UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (GLUTARALDEHYDE), MARINE POLLUTANT
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1
Packing group	II
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

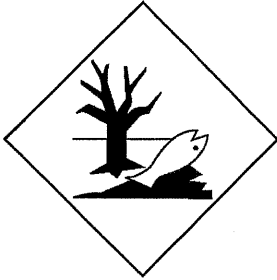
DOT



IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This is an EPA registered biocide and is exempt from TSCA inventory requirements. See FIFRA registry number.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

FIFRA registration number 464-692-3876

TSCA This is an EPA registered biocide and is exempt from TSCA inventory requirements.

FIFRA hazard statement This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER
 Corrosive
 Causes irreversible eye damage
 Causes skin burns
 Harmful if inhaled
 May be fatal if swallowed
 Harmful if absorbed through skin
 Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals
 Causes asthmatic signs and symptoms in hyper-reactive individuals
 This pesticide is toxic to fish

US state regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

US - Massachusetts RTK - Substance List

Glutaraldehyde (CAS 111-30-8)

US - Pennsylvania RTK - Hazardous Substances

Glutaraldehyde (CAS 111-30-8) Listed.

US - Rhode Island RTK

Glutaraldehyde (CAS 111-30-8)

US. New Jersey Worker and Community Right-to-Know Act

Glutaraldehyde (CAS 111-30-8) Listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Glutaraldehyde (CAS 111-30-8) Hazardous substance

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

16. Other information, including date of preparation or last revision

Issue date	Oct-08-2014
Revision date	Apr-09-2018
Version #	4.0

List of abbreviations

CAS: Chemical Abstract Service Registration Number
TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.
ACGIH: American Conference of Governmental Industrial Hygienists
NOEL: No Observed Effect Level
STEL: Short Term Exposure Limit
LC50: Lethal Concentration, 50%
LD50: Lethal Dose, 50%
TWA: Time Weighted Average
BOD: Biochemical Oxygen Demand
COD: Chemical Oxygen Demand
TOC: Total Organic Carbon
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods Code

References:

No data available

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. 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.

Revision information

Other information, including date of preparation or last revision: Prepared by

Prepared by

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