



**4. FIRST-AID MEASURES**

<b>Inhalation</b>	Non-reactive. No First-aid needed	
<b>Skin Contact</b>	Non-irritating. No First-aid needed	
<b>Eye Contact</b>	May be slightly irritating. Rinse thoroughly with plenty of water. If irritation persists contact physician.	
<b>Ingestion</b>	Non-toxic. No First-aid needed.	
<b>Symptoms/effects, acute and delayed</b>	None	
<b>Special treatment needed</b>	None anticipated.	
<b>General information</b>	Follow directions above. If you feel unwell seek medical advice. Show label and SDS to attending First-aid giver and/or physician if possible.	

**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media</b>	Does not burn.	
<b>Unsuitable extinguishing media</b>	None	
<b>Specific hazards arising from the burning of chemicals</b>	Does not burn.	
<b>Fire fighting equipment/instructions</b>	Does not burn.	
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.	
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.	

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures</b>	None needed. Caution floor may be slippery.	
<b>Methods and materials for containment and cleaning up</b>	Where possible, vacuum spilled liquid to recover material. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.	
<b>Environmental precautions</b>	None needed - non-toxic, non-hazardous in diluted form.	

**7. HANDLING AND STORAGE**

Precautions for safe handling	Normal ventilation is adequate. Avoid contact with eyes. Wear safety glasses.	
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from children and pets. 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 OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical Name	Type	Value	From
Glycerol (CAS 56-81-5)	PEL	5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable fraction. Total dust

Biological limit values	No exposure limits.	
Appropriate engineering controls	Normal ventilation is adequate	

**Individual protection measures, such as personal protective equipment**

Eye/face protection	Safety glasses recommended	
Skin protection - hands/other	None normally required. If allergic wear gloves and appropriate clothing/apron.	
Respiratory protection	None normally required.	
Thermal hazards	None needed	
General hygiene considerations	Observe good hygiene practices	

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear
Physical state	Liquid
Form	Liquid
Color	Clear
Odor	Slightly soapy
Odor threshold	Not available
pH	6.5 – 8.5
Melting point/freezing point	32°F (-0°C) estimated
Initial boiling point and boiling range	212 °F (100°C) estimated
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability limits	Not available
Upper/lower explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility(ies) in water	Complete
Partition coefficient (in n-octanol/water)	Not available
Auto-ignition temperature	>739°F (393°C) estimated
Decomposition temperature	Not available
Viscosity	Not available
Density	Not available
Explosive properties	Not explosive
Flammability class	Non-flammable, Non-combustible
Oxidizing properties	Non oxidizing
Percent volatile	Not available
Specific gravity	1.011
VOC (weight %)	Not available

**10. STABILITY AND REACTIVITY**

Reactivity	None known	
Chemical stability	Stable	
Possibility of hazardous reactions	None known	
Conditions to avoid	None known	
Incompatible materials	None known	
Hazardous decomposition	None known	

**11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure

Inhalation	Not classified	
Skin contact	Not harmful	
Eye contact	Slight irritation possible	
Ingestion	Not available	

Symptoms related to the physical, chemical and toxicological characteristics	Slight irritation possible	
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Information on toxicological effects

Acute toxicity	No significant hazards	
Skin corrosion/irritation	Not harmful	
Serious eye damage/eye irritation	Slight irritation possible	

Respiratory or skin sensitization

Skin sensitization Skin sensitization - Sodium Citrate	None expected	
Germ cell mutagenicity	None expected	
Carcinogenicity	None known	
Reproductive toxicity	None known	
Specific target organ toxicity - repeated exposure	None known	
Aspiration hazard	Not harmful	

**12. ECOLOGICAL INFORMATION**

Ecotoxicity	No significant hazards	
Persistence and degradability	No significant hazards	
Mobility in soil	No significant hazards	
Other adverse effects	No significant hazards	

**13. DISPOSAL CONSIDERATIONS**

Disposal instructions	Where possible, vacuum spilled liquid to recover material. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.	
Local disposal regulations	No known hazards	
Hazardous waste code	Not hazardous	
Waste from residues / unused products	Not hazardous	

Contaminated packaging	Not hazardous	
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**14. TRANSPORT INFORMATION**

DOT	Not regulated as dangerous goods	
IATA	Not regulated as dangerous goods	
IMDG	Not regulated as dangerous goods	
Transport in bulk according to Annex II of MARPOL 73/38 and the IBC Code	Not established	

**15. REGULATORY INFORMATION**

US Federal Regulations	Not hazardous		
TSCA Section 12(b) Export Notification	Not applicable		
CERCLA Hazardous Substance List (40 SARA 304 Emergency release)	Not applicable		
OSHA Specifically Regulated	Not applicable		
Superfund Amendments and Reauthorization Act of 1986 (SARA)	Hazard categories	Not applicable	
	SARA 302 Extremely hazardous substance	Not applicable	
	SARA 311/312 hazardous chemical	Not applicable	
	SARA 313 (TRI reporting)	Not applicable	

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	

US State Regulations

US. California Controlled Substances.	Not applicable	
US. Massachusetts RTK - Substance List	Product quantity below regulation limits	
US. New Jersey Worker and Community Right-to-Know Act	Product quantity below regulation limits	
US. Pennsylvania Worker and Community Right-to-Know Law	Product quantity below regulation limits	
US. Rhode Island RTK	Not applicable	
US. California Proposition 65	Not applicable	

**International Inventories**

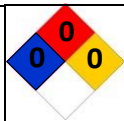
Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IEDSD)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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 are exempt from listing on the inventory administered by the governing country(s).

**16. OTHER INFORMATION****Concentrated Product**

	HMIS® Ratings	NFPA Ratings		
Health	0	0		
Flammability	0	0		
Instability	0	0		
Personal Protection	-	-		

Symbol



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**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.

**Revision Information** Physical & Chemical Properties: Multiple Properties  
 Regulatory Information: United States.

**END OF SDS**