

Material Safety Data Sheet

4. FIRST AID

Eye Contact	Immediately flush eyes thoroughly with plenty of water for 15 minutes and consult a physician if irritation develops
Skin Contact	Remove contaminated clothing and wash affected area with water. Consult physician if irritation develops
Inhalation	Remove individual to fresh air. Seek medical attention if breathing problems persist
Ingestion	Do not induce vomiting. Rinse mouth and drink water to dilute. Seek medical attention.
Note to physician	Treat patient symptomatically

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA and NFPA)	Non-flammable Material
Flash Point:	None to Boil (Test Method ASTM D93)
Autoignition Temperature	No data
Fire/Explosion Hazards	Not sensitive to static discharge. Keep containers away from sources of ignition
Extinguishing Media	Use equipment appropriate to the main source of the fire. Water spray, foam, dry chemical or CO2
Fire Fighting Instructions	In the event of fire, wear full protective clothing and self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Spills	Use personal protective equipment. Ventilate area of leak or spill.
Spill Information	Contain spill. Absorb spill with dry absorbent.
Environmental Precautions	Dispose of contaminated materials in accordance with applicable national, state, and local regulations.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid breathing mist.
Storage	Keep containers closed when not in use. Minimize evaporative losses. Avoid storage in temperature extremes.
Shelf Life Limitations	Consult manufacturer prior to using if product is older than six months
Incompatible Materials for Storage	None known

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls	Properly vented environment, showers, eye wash station
Respiratory	Not required under foreseeable conditions of use. If TLV is exceeded use NIOSH approved respiratory protection. ACGIH TWA 10 mg/m ³ . OSHA PEL (total dust) 15 mg/m ³
Protective Clothing	Protective gloves, body covering, good hygiene practices
Eye Protection	Chemical safety glasses or goggles

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Volatiles, % by vol	0% (EPA 8260 B)
Color	Light brown	Boiling Point	Not determined
Odor	Musty – Sweet Odor	Freezing Point	Below Zero Fahrenheit
pH	4.75-6.75	Flash Point	None to Boil (ASTM D93)
Solubility in Water	Miscible in water	Vapor Pressure	Not determined
Bulk Density	10.17 lbs/gal	Viscosity	45 cPs @ 20°C
Specific gravity	1.22@ 20°C		

10. STABILITY AND REACTIVITY

Stability	Stable under normal storage conditions
Incompatible materials	None known
Incompatible chemicals	Strong oxidants, strong acids
Hazardous polymerization	Does not occur
Decomposition Products	Oxides of carbon
Conditions to Avoid	Exposure to air for prolonged periods, heat, flames, ignition sources

11. TOXICOLOGICAL INFORMATION

Routes of Entry	Inhalation, skin, ingestion
Carcinogenicity	NTP: No OSHA: No IARC: No
Toxicity to Animals	LD50 Oral Rat: 12,600 mg/kg (Pure glycerin)
Mutagenicity	None

12. ECOLOGICAL INFORMATION

Environmental Fate	Product is biodegradable in soil and water. Product does not bioaccumulate.
Environmental Toxicity	TBD

13. DISPOSAL CONSIDERATIONS

Do not dump into sewers, the ground or any body of water. This material as supplied, is not a hazardous waste according to Federal Regulations (CFR 261). Dispose of in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

US Domestic DOT	Not Regulated
Reportable Quantity per 49CFR172.101	Not Regulated

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15. REGULATORY INFORMATION

United States

Toxic Substances Control Act

The components of this product are listed on the TSCA Inventory of Existing Chemical Substances

SARA Section 313

This product may contain trace amounts of a chemical that is subject to reporting requirements of SARA

Methanol CAS # 67-56-1 % Weight 0-0.06% SARA 313 Threshold 1%

SARA Section 311/312 Hazard Categories

Acute - YES (glycerin mist)

Chronic - NO

Physical - None

Pressure Hazard - NO

Fire Hazard - NO

Section 302 (EHS) TPQ

Not applicable

Section 304 (EHS) TPQ

Not applicable

CERCLA

This product may contain trace amounts of a chemical that is subject to reporting requirements of CERCLA

Methanol RQ # 5,000. Product contains 0.0-0.06% methanol by weight

State Right to Know Regulations

Chemical Name: Glycerin

Massachusetts, Pennsylvania, Rhode Island, Minnesota

16. ADDITIONAL INFORMATION

MSDS REVISION STATUS: Revision January 9, 2012 | Replaces September 8, 2011

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. WE BELIEVE THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF ITS PUBLICATION DATE, BUT MAKE NO WARRANTY THAT IT IS. IF THIS MSDS IS MORE THAN THREE YEARS OLD YOU SHOULD CONTACT THE SUPPLIER TO MAKE CERTAIN THAT THE INFORMATION IS CURRENT.