



Material Safety Data Sheet

Catalog Number: 3055-044

Revision date: 14-Apr-2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 3055-044

Product name: 80% Glycerol

Synonyms: Glycerin; Glycerine; 1,2,3-Propanetriol; Glyceritol; Glycyl alcohol; Grocolene; Osmoglyn; Trihydroxypropane; 1,2,3-Trihydroxypropane

Supplier:

MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
GLYCEROL	56-81-5	80 - 90%	10 mg/m ³ TWA	5 mg/m ³ Respirable fraction. 10 mg/m ³ Total dust.
WATER	7732-18-5	20 - 30%	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause irritation to the eyes, skin and respiratory system., Combustible material

Category of Danger:

Irritant

Principle routes of exposure: Skin

Inhalation: Irritating to respiratory system

Ingestion: Irritating to mouth, throat and stomach

Skin contact: Irritating to skin.

Eye contact: Contact with eyes may cause irritation

ANSI Classification Irritant - eye, skin, respiratory

Statements of hazard May Cause Eye, Skin and Respiratory Tract irritation.

COMBUSTIBLE MATERIAL AND VAPOR.

Statement of Spill or Leak - ANSI Label Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment.

Statement of First Aid In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Precautions - ANSI Label Keep away from heat and flame. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid breathing vapors. Avoid prolonged or repeated contact with the skin, eyes or respiratory tract. Wash thoroughly after exposure.

4. FIRST AID MEASURES

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes Call a physician immediately

Ingestion: Do not induce vomiting without medical advice.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Specific hazards:

Use dry chemical, CO₂, water spray or "alcohol" foam
Contact with strong oxidizing agents such as chromium trioxide, potassium chlorate or potassium permanganate may be an explosion hazard. Can react violently with acetic anhydride, (aniline + nitrobenzen), Ca(OCl)₂, CrO₃, Cr₂O₃, (F₂ + PbO), (HClO₄ + PbO), KMnO₄, K₂O₂, AgClO₄, Na₂O₂, NaH. combustible material

Unusual hazards:

Special protective equipment for firefighters:

None known

Wear self contained breathing apparatus for fire fighting if necessary.

Specific methods:

Water mist may be used to cool closed containers.

Flash point:

Not determined

Autoignition temperature:

Not determined

NFPA rating:

NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment. Remove all sources of ignition.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Storage:

15-30°C

Handling:

Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:

Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

Technical measures/storage conditions:

Keep away from heat and sources of ignition Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible products:

Oxidizing and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Impervious clothing

Eye protection: Goggles

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor	Clear and colorless, syrupy; odorless
Physical state:	Liquid
Formula:	C3-H8-O3
Melting point/range:	No data available at this time.
Boiling point/range:	No Data available at this time.
Density:	No data available
Vapor pressure:	No data available
Evaporation rate:	No data available
Vapor density:	No data available
Solubility (in water):	Completely miscible
Flash point:	Not determined
Autoignition temperature:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors such as carbon oxides.
Materials to avoid:	-
	Polymerizes at approximately 300F. Incompatible with acetic anhydride, potassium permanganate, strong acids, caustics, aliphatic amines, isocyanates, oxidizers.
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components
GLYCEROL

RTECS Number:
MA8050000

Selected LD50s and LC50s

Inhalation LC50 Rat : >570 mg/m³/1H
Oral LD50 Rat : 12600 mg/kg
Oral LD50 Mouse : 4090 mg/kg
Dermal LD50 Rabbit : >10 gm/kg
Oral LD50 Rat = > 90 ml/kg

WATER

ZC0110000

Chronic toxicity:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation:	A primary irritant.
Carcinogenic effects:	No data is available on the product itself.
Mutagenic effects:	No data is available on the product itself.
Reproductive toxicity:	No data is available on the product itself.

Components
GLYCEROL

NIOSH - Health Effects

NIOSH - Target Organs

respiratory system, skin, eyes, kidneys

12. ECOLOGICAL INFORMATION

Mobility: No data available
Bioaccumulation: No data available
Ecotoxicity effects: No data available
Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.

Components GLYCEROL WATER	U.S. DOT - Appendix B - Marine Pollutants Not Listed Not Listed	U.S. DOT - Appendix B - Severe Marine Pollutants Not Listed Not Listed	United Kingdom - The Red List: Not Listed Not Listed
Components GLYCEROL WATER	Germany VCI (WGK) Not Listed	World Health Organization (WHO) - Drinking Water Not Listed	Ecotoxicity - Fish Species Data LC50 (96 hr) rainbow trout: 50-67 mg/L. Cond: 12 °C.; LC50 (96 hr) goldfish: >5000 mg/L. Not Listed
Components GLYCEROL WATER	Ecotoxicity - Freshwater Algae Data Not Listed Not Listed	Ecotoxicity - Microtox Data Not Listed Not Listed	Ecotoxicity - Water Flea Data Not Listed Not Listed
Components GLYCEROL WATER	EPA - ATSDR Priority List Not Listed Not Listed	EPA - HPV Challenge Program Chemical List Listed. Not Listed	California - Priority Toxic Pollutants Not Listed Not Listed
Components GLYCEROL WATER	California - Priority Toxic Pollutants Not Listed Not Listed	California - Priority Toxic Pollutants Not Listed Not Listed	

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers
Methods for cleaning up: Soak up with inert absorbent material.

14. TRANSPORT INFORMATION

UN/Id No: Not regulated

DOT:
Proper shipping name: Not Regulated

Components GLYCEROL WATER	U.S. DOT - Appendix A Table 1 - Reportable Quantities Not Listed Not Listed
--	--

TDG (Canada):

WHMIS hazard class: D2b toxic materials

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

Components	U.S. DOT - Appendix B - Marine Pollutants	U.S. DOT - Appendix B - Severe Marine Pollutants
GLYCEROL	Not Listed	Not Listed
WATER	Not Listed	Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

GLYCEROL	
Inventory - United States TSCA - Sect. 8(b)	Listed
Canada DSL Inventory List -	Listed
Australia (AICS):	Listed.
Inventory - China:	Listed
EU EINECS List -	2002895
Inventory - Japan:	(2)-242 (7)-338
Korean KECL:	KE-29297
Philippines PICCS:	Listed
WATER	
Inventory - United States TSCA - Sect. 8(b)	Present
Canada DSL Inventory List -	Present
Australia (AICS):	Present
Inventory - China:	Present
EU EINECS List -	231-791-2; H2O
Inventory - Japan:	JP
Korean KECL:	KE-35400
Philippines PICCS:	Present

U.S. regulations:

Components	California Proposition 65 -	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
GLYCEROL	Not Listed	Listed.	Not Listed	Listed.
WATER	Not Listed	Not Listed	Not Listed	Not Listed
Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
GLYCEROL	Not Listed	Listed.	Not Listed	No hazard limiting value has been established
WATER	Not Listed	Not Listed	Not Listed	Not Listed
Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
GLYCEROL	Not Listed	Not Listed	None	None
WATER	Not Listed	Not Listed	None	None

SARA 313 Notification:

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, MP Biomedicals does not guarantee the accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage maybe required. MP Biomedicals assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

End of Safety Data Sheet