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Distributed by:

Rocky Mountain Reagents

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Part #'s: G1008, G1011

SAFETY DATA SHEET

Glycerin

This MSDS is valid for all grades and catalog #'s

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: High Purity Chemicals

Synonyms: 1,2,3-Propanetriol; Glycerol; ,2,3-TRIHYDROXYPROPANE; Glyceritol;

Glycic Alcohol; Gylcerine

Other means of identification: CAS No. 56-81-5

EINECS No. 200-289-5

Recommended use of the chemical and restrictions on use:

General use solvent

Supplier Details:

Pharmco Products, Inc. Pharmco Products, Inc.

58 Vale Road, Brookfield, 1101 Isaac Shelby Drive, Shelbyville,

CT 06804, USA. KY 40065, USA. Tel: 203.740.3471 Tel: 502.232.7600 Fax: 203.740.3481 Fax: 502.633.6100

CCN17213 CCN17213

Emergency Contact: CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION

OSHA Hazards:

Target organ effect

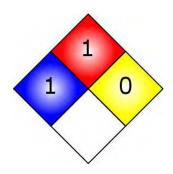
Target Organs:

Kidney



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NFPA



Signal Word:

WARNING!

Hazard statement(s)

H316 Causes mild skin irritation. H320 Causes eye irritation

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Seek

medical attention.

GHS Classification(s)

Eye irritation (Category 2B) Skin irritation (Category 3)

Other hazards which do not result in classification:

Potential Health Effects:

Organ	Description
Eyes Can be irritating to the eyes	
Ingestion Can be harmful if ingested.	
Inhalation Can be harmful if inhaled.	
Skin	Can be irritating to the skin

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity: Glycerin

Common name / Synonym: 1,2,3-Propanetriol; Glycerol; ,2,3-TRIHYDROXYPROPANE; Glyceritol;

Glycic Alcohol; Glycerine

 CAS number:
 56-81-5

 EINECS number:
 200-289-5

 ICSC number:
 0624



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RTECS #: MA8050000

% Weight	Material	CAS
100	Glycerine	56-81-5

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Flammable Properties

Flash point

199 °C (390 °F) - closed cup

Autoignition temperature

370 °C (698 °F)



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors, mist, or gas. Avoid dust formation.

Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb with an inert dry material and place in an appropriate waste disposal container. Keep disposal containers closed when finished.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist. Take normal fire prevention measures.

Conditions for safe storage, including any incompatibilites:

Keep container tightly closed in a cool, dry and well-ventilated place. Avoid moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Type	Value	Note
Glycerine	US (OSHA)	TWA	15 mg/m3	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants
Glycerine	US (ACGIH)	TWA	10 mg/m3	ACGIH Threshold Limit Value

Individual protection measures, such as personal protective equipment:

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by



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appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance (physical state, color, etc.)	Clear, viscous liquid
Odor	Odorless
Odor threshold	Specific data not available
рН	Specific data not available
Freezing point	Melting Point; 19 °C (66 °F)
Initial boiling point and boiling range	171 °C (340 °F)
Flash point	199 °C (390 °F) - closed cup
Evaporation rate	Specific data not available
Flammability (solid, gas)	Not flammable or combustible
Upper / Lower flammability or explosive limits	19% (V) / 2.7% (V)
Vapor pressure	0.0033 hPa (0.0025 mmHg) at 50 °C (122 °F)
Vapor Density	3.1
Relative Density	1.25 g/cm3
Solubility(ies)	Completely miscible in water
Partition coefficient n-octanol/water(ies)	log Pow: -1.75
Auto-ignition temperature	370 °C (698 °F)
Decomposition temperature	Specific data not available
Formula (GLYCERINE)	C3H8O3
Molecular Weight (GLYCERINE)	92.09 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.	
Possibility of hazardous reactions	No data available	
Conditions to avoid (e.g., static discharge, shock or vibration)	No data available	
Incompatible materials	Strong oxidizing agents, strong bases	
Hazardous decomposition products	Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products.	



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11. TOXICOLOGICAL INFORMATION

• Glycerine 56-81-5

Product Summary:

No data available for the mutagenic, teratogenic, or reproductive effects of the product. No data available to designate product as an aspiration hazard or to cause specific target organ toxicity through single or repeated exposure

Acute Toxicity:

LD50 (Dermal)	Rabbit	>10,000 mg/kg	
LD50 Oral	Rat	12,600 mg/kg	

Irritation:

Eyes

Rabbit - mild eye irritation - 24 hours

Respiratory or Skin Sensitization

No data available

Skin

Skin - rabbit - Mild skin irritation - 24 hours

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Organ Description	
Eyes	Can be irritating to the eyes.	
Ingestion	Can be harmful if ingested.	
Inhalation	Inhalation Can be harmful if inhaled. Can be irritating to the respiratory tract.	
Skin	Can be harmful if absorbed through skin. Can be irritating to the skin.	

MSDS: 277 Revision Date: 12.16.13 Revision Number: 3.2 Initials: EF

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12. ECOLOGICAL INFORMATION

• Glycerine 56-81-5

Ecotoxicity (aquatic and terrestrial, where available):

Ecotoxicity

No data available

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available

Other adverse effects:

No data available

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Recycle to process, if possible. Consult your local or regional authorities.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number

Not a dangerous good.

IMDG

UN-Number: Not a dangerous good.

Marine pollutant: No

IATA

UN-Number: Not a dangerous good.

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

OSHA Hazards

Target organ effect

MSDS: 277 Revision Date: 12.16.13 Revision Number: 3.2 Initials: EF

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All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard

CERCLA

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Massachusetts Right To Know Components

Glycerine CAS-No. 56-81-5 Revision Date 2007-03-01

Pennsylvania Right To Know Components

Glycerine CAS-No. 56-81-5 Revision Date 2007-03-01

New Jersey Right To Know Components

Glycerine CAS-No. 56-81-5 Revision Date 2007-03-01

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



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16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Disclaimer

PHARMCO-AAPER believes that the information on this MSDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, PHARMCO-AAPER does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable. Information is correct to the best of our knowledge at the date of the MSDS publication.