



SAFETY DATA SHEET

Revision Date: 2/10/2016 Revision Number: G2 Preparation Date: 1/22/2014

1. IDENTIFICATION

Product identifier

Product code: G1015

Product Name: GLYCERIN, SYNTHETIC, USP, EP, BP, JP

Other means of identification

Synonyms: 1,2,3-Propanetriol

1,2,3-Trihydroxypropane

Glycerin mist

Glycerin, anhydrous Glycerin, synthetic

Glycerine Glyceritol Glycyl alcohol Grocolene Osmoglyn

Synthetic glycerin Trihydroxypropane glicerina (Spanish) glycérine (French)

CAS #: 56-81-5 MA8050000 RTECS# Not available CI#:

Recommended use of the chemical and restrictions on use

Solvent. Cosmetics. Lubricant. Soaps. In Foods. Recommended use:

Uses advised against No information available

Spectrum Chemical Mfg. Corp Supplier:

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Chemtrec 1-800-424-9300 **Emergency telephone number Contact Person:** Martin LaBenz (West Coast) **Contact Person:** Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation Category 2B

Product code: G1015 1/12 Product name: GLYCERIN,

Label elements

Warning

Hazard statements

Causes eye irritation

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Causes mild skin irritation

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Glycerin	56-81-5	100
56-81-5		

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Mild eye irritation. Mild skin irritation. Central nervous system effects. Headache. Drowsiness.

Nausea. Vomiting. Dehydration. Thirst.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

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5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide

Specific hazards: May be combustible at high temperatures

May be ignited by heat, sparks or flames

Container explosion may occur under fire conditions or when

heated

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth).

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste disposal

container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

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Incompatible Materials:

Oxidizing agents. Acids. Acid anhydrides. Aniline. Nitrobenzene.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

U.S Occupational Exposure Limits:

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Glycerin	15 mg/m ³ TWA	None	None	None
56-81-5				

Canada

Canada Occupational Exposure Limits:

Components	Alberta	British Columbia	Ontario	Quebec
Glycerin	10 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA mist	10 mg/m ³ TWAEV mist
56-81-5		3 mg/m ³ TWA respirable		

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico:

Components	Australia	Mexico
Glycerin	10 mg/m³ TWA	10 mg/m³ TWA
56-81-5	-	-

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles Safety glasses with side-shields

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room ventilation

or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an

annual destified respirator or equivalent

approved/certified respirator or equivalent. .

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color

Liquid. Viscous. Syrupy. Clear. Colorless.

Odor:TasteFormula:Mild (Slight).Sweet.C3-H8-O3

Molecular/Formula weight: Flammability: Flash point (°C):

92.09 No information available 160

Flashpoint (°C/°F): Flash Point Tested according to: Autoignition Temperature (°C/°F):

Lower Explosion Limit (%): Upper Explosion Limit (%): pH

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

19-20 °C/66.2-68 °F 290 °C/554 °F No information available

Bulk density: Density (g/cm3): Specific gravity:

No information available No information available 1.2613-1.2636 @ 20 °C

Vapor pressure @ 20°C (kPa): Evaporation rate: Vapor density:

No information available 3.17

VOC content (g/L): Odor threshold (ppm): Partition coefficient
No information available (n-octanol/water):

-1.76

Viscosity: Miscibility: Solubility:

Insoluble in Benzene
Insoluble in Chloroform
Insoluble in Carbon disulfide
Insoluble in Carbon tetrachloride
Insoluble in Petroleum ether

370-392 °C/698-739 °F

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Reactive with acids

It can react vigorously, violently or explosively with oxidizers

Glycerin is incompatible with strong oxidizers such as chromium trioxide, potassium chlorate, or potassium permanganate and may explode on contact

Explosive glyceryl nitrate is formed from a mixture of glycerin and nitric and sulfuric acids

When Perchloric acid and Lead oxide are mixed with glycerin, perchloric esters are formed, which may be explosive

Glycerin and chlorine may explode if heated and confined

Glycerin may react violently with acetic anhydride, aniline, nitrobenzene, chromic oxide, lead oxide, fluorine, phosphorous triiodide, ethylene oxide, silver perchlorate, sodium peroxide, and sodium hydride

Chemical stability

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Exposure to moist air. Exposure to moisture.

Incompatible Materials: Oxidizing agents. Acids. Acid anhydrides. Aniline. Nitrobenzene.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

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Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Ingestion. Eyes.

Acute Toxicity

Component Information

Glycerin - 56-81-5

LD50/oral/rat = 12600 mg/kg Oral LD50 Rat

LD50/oral/mouse = 4090 mg/kg

LD50/dermal/rat = > 21900 mg/kg Dermal LD50 Rat

LD50/dermal/rabbit = 10 g/kg Dermal LD50Rabbit

LC50/inhalation/rat = >570 mg/m³ Inhalation LC50 Rat 1 h

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = 27 gm/kg LD50 oral Rabbit

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 12600mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 4090mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = >10000mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = > 21900mg/kg

LC50/inhalation/rat

 $VALUE-Vapor = > 570 \text{mg/m}^3 (1-hr)$

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation. Mild skin irritation. It may be absorbed through the skin.

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

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Eye Contact: Contact with eyes may cause irritation. Mild eye irritation. Symptoms may include

stinging, tearing, redness.

Inhalation May cause irritation of respiratory tract. This material has a very low vapor pressure.

Not expected to be an inhalation hazard for normal handling. If the product is misted

or heated, the Inhalation of mist or vapor can cause respiratory tract irritation.

Low hazard. Ingestion may cause gastrointestinal irritation, nausea, vomiting and Ingestion

> diarrhea. May cause dehydration. May cause thirst. May cause hyperglycemia. May affect liver. It may affect behavior/central nervous system (excitement, depression, general anesthetic, headache, dizziness, convulsions, confusion, insomnia, muscle weakness). It may affect behavior/central nervous system (drowsiness). May affect

blood (changes in serum composition).

No information available **Aspiration hazard**

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the blood (changes in white blood cell

count)

Prolonged or repeated ingestion may affect the blood (changes in serum

composition)

Chronic ingestion of Glycerin may increase blood serum glyceride concentration

Prolonged or repeated ingestion may affect the kidneys Prolonged or repeated ingestion may affect the liver

Sensitization: No information available

Mutagenic Effects: May affect genetic material

Experiments with human lymphocytes have shown mutagenic effects

Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH -	NTP	OSHA HCS -	Australia - Notifiable	Australia - Prohibited
-		Carcinogens		Carcinogens	Carcinogenic	Carcinogenic
				_	Substances	Substances
Glycerin	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

No data is available Reproductive toxicity

Reproductive Effects: No information available **Developmental Effects:** No information available **Teratogenic Effects:** No information available

Specific Target Organ Toxicity

STOT - single exposure No information available STOT - repeated exposure No information available **Target Organs:** No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Aquatic environment.

Glycerin - 56-81-5

Freshwater Fish Species Data: 51 - 57 mL/L LC50 Oncorhynchus mykiss 96 h static 1

Water Flea Data: 500 mg/L EC50 Daphnia magna 24 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Glycerin	None	None		None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available

Packing Group: None

ERG No: No information available

Marine Pollutant No data available

DOT RQ (lbs):

Special Provisions
Symbol(s):

No information available
No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available

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14. TRANSPORT INFORMATION

Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

No information available **Proper Shipping Name: Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available No information available MFAG: No information available **Maximum Quantity:**

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Glycerin	Present	Present KE- 29297	Present	Present (2)- 242	Present	Present	Present 200-289-5

U.S. Regulations

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Glycerin

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 3319

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.90 21 CFR 182.1320

FDA - Direct Food Additives 21 CFR 172.866

FDA - 21 CFR - Total Food Additives 169.175 172.811 175.300 175.320 176.210 177.1390 177.2420 177.2800 178.3500

182.1320 182.90 172.866 178.3500

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen		Male Reproductive Toxicity	Female Reproductive Toxicity:
Glycerin	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
Glycerin	None	None	None	None	None

U.S. TSCA

·	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Glycerin	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

Glycerin

Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Glycerin	Present	Not Listed

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory
		Reporting
Glycerin	Not listed	Not listed

EU Classification

R-phrase(s) not determined (not applicable)

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Glycerin		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Not dangerous

16. OTHER INFORMATION

Product code: G1015

16. OTHER INFORMATION

Preparation Date:1/22/2014Revision Date:2/10/2016Prepared by:Sonia Owen

Disclaimer:

Product code: G1015

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. 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. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet