



CHEM GROUP

Safety Data Sheet Glycerin

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Glycerin
Brand	CG-015

1.2 Other means of identification glycerol, 1,2,3-Propanetriol

1.4 Supplier's details

Name	Chem Group
Address	2406 Lynch Road Evansville IN 47711 USA
Telephone	8127598354
email	kelder@chemgroupus.com

1.5 Emergency phone number

1-800-424-9300 Chemtrec

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2024)

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Glycerine

Concentration	99.5 - 99.5 % (weight)
EC no.	200-289-5
CAS no.	56-81-5

2. Water

Concentration	Not specified
EC no.	231-791-2
CAS no.	7732-18-5

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Provide this SDS to medical professional if requested or required
If inhaled	No inhalation hazard associated with this material under normal conditions of storage or use. If problem arises, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
In case of skin contact	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/ attention.
In case of eye contact	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.
If swallowed	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Consult with physician.
Personal protective equipment for first-aid responders	No special chemical PPE is required for this material

4.2 Most important symptoms/effects, acute and delayed

May cause eye, skin and respiratory tract irritation

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Suitable Extinguishing Media :Water spray, dry powder, foam, or carbon dioxide (CO₂).

Unsuitable Extinguishing Media Do not scatter spilled material with high pressure water streams.

5.2 Specific hazards arising from the chemical

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products Carbon oxides,

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.3 Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater

6.3 Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Dike far ahead of liquid spill for later disposal. Absorb with inert material or sweep up, and then place in suitable container for chemical waste.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes or clothing.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.

incompatible Materials Strong oxidizing agents. Can react violently with acetic anhydride,calcium oxychloride, chromium oxides and alkali metal hydrides.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Glycerine (CAS: 56-81-5 EC: 200-289-5)

TWA [Glycerol] (Inhalation): 15 mg/m³; US (US/OSHA)

USA. Occupational Exposure Limits(OSHA) - Table Z-1 Limits for Air Contaminants

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TWA [Glycerol] (Inhalation): 5 mg/m³; US (US/OSHA)
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminant

PEL [Glycerin (mist)-Total dust] (Inhalation): 15 mg/m³; US (US/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL [Glycerin (mist)-Total dust] (Inhalation): 10 mg/m³; US (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL [Glycerin (mist)-Total dust] (Inhalation): See Appendix D; US (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

PEL [Glycerin (mist)- Respirable fraction] (Inhalation): 5 mg/m³; US (US/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL [Glycerin (mist)- Respirable fraction] (Inhalation): 5 mg/m³; US (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL [Glycerin (mist)- Respirable fraction] (Inhalation): See Appendix D; US (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Engineering Controls Maintain eye wash fountain and quick-drench facilities in work area

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety goggles or face shield

Skin protection

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

Respiratory protection

In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Use respirators and components tested and approved under appropriate government standards such as NIOSH.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear viscous liquid
Color	clear
Odor	slightly musty
Odor threshold	No data available.
Melting point/freezing point	18C/64F
Boiling point or initial boiling point and boiling range	290C/554F
Flammability	Ignitable
Lower and upper explosion limit/flammability limit	No data available.
Flash point	>199C/>390F
Explosive properties	No data available.
Auto-ignition temperature	370C/698F
Decomposition temperature	No data available.
Oxidizing properties	No data available.

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pH	4.0-7.0
Kinematic viscosity	No data available.
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	<0.0025 mm Hg @ 122F
Evaporation rate	No data available.
Density and/or relative density	SG- 1.26
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions of use or storage

10.2 Chemical stability

Stable under normal conditions of use or storage

10.3 Possibility of hazardous reactions

None under normal conditions of processing

10.4 Conditions to avoid

Keep away from sources of ignition

10.5 Incompatible materials

Glycerine : Strong bases, Strong oxidizing agents

10.6 Hazardous decomposition products

Glycerin : Toxic gases and vapors may be released if involved in a fire. Glycerin decomposes upon heating above 290 °C, formingcorrosive gas (acrolein).

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

None known

Skin corrosion/irritation

Prolonged contact may cause redness and irritation

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Serious eye damage/irritation

May cause eye irritation on contact

Respiratory or skin sensitization

Avoid breathing high concentration of vapors

Germ cell mutagenicity

None known

Carcinogenicity

Not a carcinogen

Reproductive toxicity

None known

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Bioaccumulative potential

Not expected to occur

Mobility in soil

Readily absorbed into loose soil

Results of PBT and vPvB assessment

No data available.

Endocrine disrupting properties

No data available.

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Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Packaging disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Waste treatment

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Sewage disposal

Do not pour down sanitary sewers or storm drains

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

SARA 302 Components

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

SARA 313 Components

This material [Glycerine] 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 for: Glycerine .

US EPA TSCA public inventory

Chemical name: Glycerine

CAS number: 56-81-5

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SARA 302 Components

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

SARA 313 Components

This material [Water] 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

No SARA Hazards for: Water.

US EPA TSCA public inventory

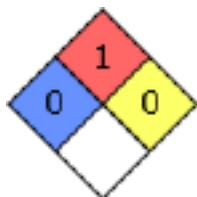
Chemical name: Water

CAS number: 7732-18-5

HMIS Rating

Glycerin	
HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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.

16.2 Preparation information

SDS Prepared by:
HSE Department
CGH-EV, Inc
2406 Lynch Road

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Evansville, IN 47711