

Safety Data Sheet

for Chemical Products

(According to GB/T 13206-2011)

Version : 1.0-English

Product name: Glycerine

S D S

Preparation date: 2020-10-20

Section 1 - Chemical Product & Company Information

Product identifier:

Product name: Glycerine

CAS NO.: 56-81-5

Uses of the chemical product:

Intended use: Used for manufacturing nitroglycerin, alkyd resin and epoxy resin.

Supplier identifier:

Company name: Changzhou Highassay Chemical Co., Ltd.

Address: No. 01, Buliding 13, No.16 Luofushan Rd, Luoxi Town, Xinbei District,
Changzhou, Jiangsu, China.

Postcode: 213000

E-mail: sales@highassay.com

Telephone: 86-0519-88995182

Fax: 86-0519-83152370

Emergency telephone:86-0519-88995182

Section 2 - Hazards identification

GHS classification:

Serious eye damage/ eye irritation Category 2A

GHS label elements:

Pictogram:



Signal word: Warning.

Hazard statement:

H319 CAUSES SERIOUS EYE IRRITATION.

General Precautionary Statement:

P102 Keep out of the reach of children.

Prevention Precautionary Statement:

P264 Wash thoroughly after handling.

P280 Wear suitable protective clothing, gloves and eye/face protection.

Response Precautionary Statement:

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice /attention.

Disposal Precautionary Statement:

P105 Dispose of contents/container in accordance with local / regional/ national/ international

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regulation.

Section 3 - Composition/Information on ingredients

Description of the chemical product: Glycerine

Main ingredients:

Index	Chemical Name	CAS No.	Concentration
1	Glycerine	56-81-5	99.5% min

Section 4 - First-aid Measures

If inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

If skin exposure:

Immediately flush skin with plenty of water while removing contaminated clothing and shoes.

If eye exposure:

Immediately flush eyes with plenty of water. If necessary, get medical attention.

If ingestion:

Immediately flush mouth, get medical attention.

Section 5 –Fire Fighting Measures

Extinguishing agent:

Suitable extinguishing agent: Water spray, Carbon dioxide, Dry chemical powder or appropriate foam.

Fire-fighting measures and protection for fire-fighters:

Fire-fighters should wear appropriate breathing apparatus and protective equipment.
Specific hazards: Emit toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Protective measures, protective equipment and emergency procedures:

Evacuate pollution area. Wear personal protective equipment (See section 8). Remove all sources of ignition. Avoid contact with skin and eyes. Avoid breathing vapors. Ensure adequate ventilation.

Methods and material for containment and cleaning up:

If available, immediately cut off source of leaked chemical products. Remove all sources of ignition. Absorb spill with incombustible inert material (e.g., dry sand or earth), then place into an airtight container. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 - Handling and Storage

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Handling and Disposal:

Operators must receive special training, and strictly abide by the procedures. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes and skin. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. Wear protective gloves/protective clothing/eye protection/ face protection. Wash thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Storage:

Store in cool, dry and well-ventilated place. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces.

Incompatibilities: strong oxidizing agents and foods.

Section 8 - Exposure Controls and Personal Protection

Engineering control method:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal protective equipment:

Respiratory protection: If ventilation is insufficient, wear suitable air respirator.

Eye protection: Safety goggles.

Skin and body protection: Protective working clothing and apron.

Hand protection: Use protective gloves.

Other protection: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

Section 9 - Physical and Chemical Properties

Appearance and status: Colorless transparent viscous liquid

Odour: Sweet

Molecular Formula: $C_3H_8O_3$

Molecular Weight: 92.0938

Melting point: 18°C

Boiling point: 98.3°C at 760 mmHg

Flash point: 22.9°C

Solubility: miscible with water, alcohols, amines and phenols in any proportion
Specific gravity: 1.263

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Section 10 - Stability and Reactivity

Stability:

Stable under normal temperature and pressure.

Hazardous Polymerization:

Will not occur.

Incompatible substances:

Strong oxides agents.

Hazardous decomposition products:

Carbon dioxide

Section 11 - Toxicological Information

Toxicity Data:

Rat Oral LD50 > 29000MG/KG.

Rabbit Skin LD50 > 29000MG/KG.

Irritation Data:

Causes serious eye damage/eye irritation: Category:2A

Aspiratory Sensitations:

Not applicable.

Skin Sensitization:

Not classified.

Germ Cell Mutagenicity:

No data in vivo test. In vitro test (Ames test): Negative

Carcinogenicity:

No data available.

Reproductive Toxicity:

No data available.

Specific target organ toxicity following repeated exposure:

No data available.

Aspiration Hazard:

No data available.

Section 12 - Ecological Information

Acute hazards to the aquatic environment:

Toxicity to fish LC50-Cyprinus- > 1000mg/l- 96h

Toxicity to aquatic invertebrates EC50-Daphnia magna (CRUSTACEA)- > 1000MG/l- 48h

Toxicity to algae EC50-Scenedesmus subspicatus (Algae)- > 900mg/l-72h

Toxicity to bacteria LC50- Pseudomonas putida (Bacteria) - > 10000mg/l

Chronic hazards to the aquatic environments:

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Type: aerobic

Inoculum: predominantly domestic sewage

Degradation: 97% after 14 days

Results: readily biodegradable

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance:

Contact a licensed professional waste disposal service of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT: This substance is considered to be non-hazardous for transport.

RID/ADR: This substance is considered to be non-hazardous for transport.

IATA: This substance is considered to be non-hazardous for air transport.

IMO: This substance is considered to be non-hazardous for sea transport.

Other information:

Avoid transporting together with strong oxidizing agents, food/feed. When stopped, stay away from heat/sparks/open flames/hot surface. During transportation, avoid overturning, damaging and falling of the containers. The transportation vehicles should be thoroughly cleaned up after handling.

Section 15 - Regulatory information

EU Additional Classification:

Hazard Symbols: Xi

Indication of Danger: Irritant

R:36

Risk Statements: Irritating to eyes.

S: 2 26

Safety Statements: Keep out of the children. In case of contact with eyes, rinse immediately with plenty of water and seek medical service.

Section 16 - Other information

Revision Information:

Date of this revision: 2016-9-20, the first new SDS.

This SDS complies with 《 Safety Data Sheet for Chemical Products - Content and Order of Sections 》 (GB/T16483-2008). Owing to the Nation has not yet issued GHS classification inventory, the classification of the product in this SDS complies with 《 Safety rules for

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classification, Precautionary labelling and Precautionary statements of chemicals 》 (GB20576-2006 ~ GB20602-2006). The information will be adjusted when the National chemical classification inventory is issued.

Training advice:

Provide adequate information, instruction and training for operators.

Data source:

Provided by company.

Abbreviations and acronyms:

CAS: Chemical Abstracts Service registration number.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

IECSC: Inventory of existing chemical substances in China.

TSCA: Toxic Substances Control Act, The American chemical inventory.

DSL: Domestic Substances List, The Canadian chemical inventory.

AICS: The Australian Inventory of Chemical Substances.

ECL: Existing Chemicals List, the Korean chemical inventory.

Disclaimer to reader:

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.

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