

## GLYCERINE MATERIAL SAFETY DATA SHEET

### I. Identification of the substance/preparation and of the company/undertaking

Product name: GLYCERINE

Supplier:

G. Baldwin & Co.

173 Walworth Road,

LONDON, ENGLAND. SE17 1RW.

Telephone: +44 (0) 207 703 5550 Fax: +44 (0)207 252 6264

E-mail: [info@baldwins.co.uk](mailto:info@baldwins.co.uk)

Web: [www.baldwins.co.uk](http://www.baldwins.co.uk)

Emergency tel: +44 (0) 207 703 5550  
(office hours only)

Chemical product name  
: 1,2,3-Propanetriol.

Synonyms  
: Glycerol.

Chemical formula  
: C<sub>3</sub>H<sub>5</sub>(OH)<sub>3</sub>

Formula  
: C<sub>3</sub>H<sub>5</sub>(OH)<sub>3</sub> Molecular Mass : 92.09

## 2. Composition/information on ingredients

Substance/Preparation : Substance

Chemical name\*

1) 1,2,3-Propanetriol.

CAS No.

56-81-5

%

100

EC Number

200-289-5

Symbol

-

R-Phrases

-

\* Occupational Exposure Limit(s), if available, are listed in Section 8  
Composition CONTAINS 99% (MIN) BY WEIGHT OF GLYCEROL- SEE  
OTHER  
INFORMATION.

CAS No. 56-81-5

EINECS Number 200-289-5

## 3. Hazards identification

Physical/chemical Hazards: Not classified as hazardous according to CHIP regulations.

## 4. First-aid measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin contact: Wash contaminated skin with soap and water. If irritation persists, seek medical attention.

Eye Contact: In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

#### Effects and symptoms

Eye Contact: Very slightly hazardous in case of eye contact (irritant).

### 5. Fire-fighting measures

#### Extinguishing Media

Suitable: Select extinguishing agent appropriate for other materials in fire.

SMALL FIRE: Use DRY chemical powder or CO<sub>2</sub>.

LARGE FIRE: Use water spray, fog or foam.

Hazardous thermal (de)composition: Thermal decomposition may release acrolein products

Special fire-fighting procedures: Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters: Be sure to use an approved/certified respirator or equivalent.

## 6. Accidental release measures

### Personal Precautions:

Splash goggles. Protective overalls/suit. Boots. Gloves. Select appropriate protective clothing for the size of the spillage.

Environmental precautions and if the product is in its solid form: Use a non-sparking shovel to put the material into a suitable waste disposal cleanup methods container. If the product is in its liquid form: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## 7. Handling and storage

Handling: Keep away from heat. Keep away from sources of ignition. Empty containers may still contain significant residual amounts of the product. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage: Keep container tightly closed. Keep container in ambient temperatures, do not store above 50°C

### Packaging materials

Recommended use: Use original container.

## 8. Exposure controls/personal protection

Engineering measures: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name  
Workplace Exposure Limits

1) 1,2,3-Propanetriol.  
EH40 (United Kingdom (UK)).  
MEL: 10 mg/m<sup>3</sup> Form: Mist  
Personal protective equipment  
Skin and body : Overalls or Lab coat.  
Hands : Gloves.  
Eyes : Safety glasses.

## 9. Physical and chemical properties

Physical state  
Colour  
Odour  
Boiling point  
  
Melting point  
Density

Vapour density  
Vapour pressure  
Solubility  
pH  
Flash point  
Autoignition temperature  
Lower explosion limit

Viscosity

: Liquid. (Viscous liquid.)

: Colourless.

: Odourless.

: 288°C (550.4°F)

: 18°C (64.4°F)

: Not available.

: 3.17 (Air = 1)

: <0.01 kPa (<0.1 mmHg) (at 20°C)

: Easily soluble in cold water.

: 7 [Neutral.]

: CLOSED CUP: 199°C (390.2°F).

: 400°C (752°F)

: LOWER: 10% UPPER: 20%

: Dynamic: 1150 cP

## 10. Stability and reactivity

Stability: The product is stable.

Materials to avoid: Highly reactive with oxidizing agents.

Hazardous decomposition products: Thermal decomposition may release acrolein

## 11. Toxicological information

Local effects

Eye irritation: Very slightly hazardous in case of eye contact (irritant).

Acute toxicity: Acute oral toxicity (LD50): >2000 mg/kg [Rat].

## 12. Ecological information

Persistence/degradability: Biodegradability:

Readily biodegradable.

Bioaccumulative potential: Not expected to bioaccumulate.

Eco toxicity: Ecotoxicity in water:

(LC50): >5000 mg/l, 96 hours [Fish].

### **13. Disposal considerations**

Methods of disposal; Waste of: Waste must be disposed of in accordance with federal, state and local environmental control regulations.  
residues; Contaminated packaging

Waste Classification: Not applicable.

### **14. Transport information**

International transport regulations

UN : UN number Not regulated.

UN : Proper shipping name ADR/

RID : Class IMDG

: Proper shipping name

IATA : Proper shipping name IATA

: Additional Information

### **15. Regulatory information**

EU Regulations

Risk Phrases:

This product is not classified according to the EU regulations.

Product Use:



Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.

Consumer applications.

## 16. Other information

HISTORY (Please note that dates are in American format [month/day/year])

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Prepared by: Michael Hale / Alistair Hunter

### Notice to Reader:

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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