

# GLYCEROL

0624  
April 2006

CAS No: 56-81-5  
RTECS No: MA8050000

Glycerin  
1,2,3-Propanetriol  
1,2,3-Trihydroxypropane  
 $C_3H_8O_3$  /  $CH_2OH-CHOH-CH_2OH$   
Molecular mass: 92.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray. Alcohol-resistant foam. Dry powder. Carbon dioxide.
<b>EXPLOSION</b>			In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
<b>Inhalation</b>		Ventilation.	Fresh air, rest.
<b>Skin</b>	Dry skin.	Protective gloves.	Rinse skin with plenty of water or shower.
<b>Eyes</b>		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Diarrhoea.	Do not eat, drink, or smoke during work.	Rinse mouth.

## SPILLAGE DISPOSAL

Ventilation. Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place.

## PACKAGING & LABELLING

## EMERGENCY RESPONSE

NFPA Code: H1; F1; R0

## SAFE STORAGE

Separated from strong oxidants.

**IPCS**

International  
Programme on  
Chemical Safety



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SEE IMPORTANT INFORMATION ON THE BACK.

**IMPORTANT DATA****Physical State; Appearance**

HYGROSCOPIC, VISCOUS COLOURLESS LIQUID.

**Chemical dangers**

The substance decomposes on heating producing corrosive fumes of acrolein. Reacts with strong oxidants causing fire and explosion hazard.

**Occupational exposure limits**TLV: mist 10 mg/m<sup>3</sup> as TWA (ACGIH 2005).  
MAK: 50 mg/m<sup>3</sup> (Inhalable fraction) Peak limitation category: I(2)  
Pregnancy risk group: C (DFG 2006).**Inhalation risk**

Evaporation at 20/C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly on spraying.

**PHYSICAL PROPERTIES**Boiling point: 290/C  
Melting point: 18/C  
Relative density (water = 1): 1.26  
Solubility in water: miscible  
Vapour pressure, Pa at 25/C: 0.01Relative vapour density (air = 1): 3.2  
Flash point: 176/C c.c.  
Auto-ignition temperature: 393/C  
Explosive limits, vol% in air: 2.6 - 11.3  
Octanol/water partition coefficient as log Pow: -1.76**ENVIRONMENTAL DATA****NOTES**

Card has been partially updated in August 2007: see Occupational Exposure Limits.

**ADDITIONAL INFORMATION****LEGAL NOTICE**

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