

GLYCIDYL METHACRYLATE

1679

October 2006

CAS No: 106-91-2
 RTECS No: OZ4375000
 UN No: 2810
 EC No: 607-123-00-4

2,3-Epoxypropyl methacrylate
 Glycidyl alpha-methyl acrylate
 Methacrylic acid, 2,3-epoxypropyl ester
 1-propanol-2,3-epoxy methacrylate
 $C_7H_{10}O_3$
 Molecular mass: 142.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Dry powder. Carbon dioxide. Foam.
EXPLOSION	Above 61/C explosive vapour/air mixtures may be formed.	Above 61/C use a closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		AVOID ALL CONTACT!	
Inhalation	Cough. Sore throat. Laboured breathing.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Half-upright position. Refer for medical attention.
Skin	Redness. Pain. Skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes	Redness. Pain. Burns	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Sore throat. Burning sensation in the throat and chest. Abdominal pain.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL

Personal protection: filter respirator for organic gases and vapours. Collect leaking liquid in covered containers. Do NOT let this chemical enter the environment.

PACKAGING & LABELLING

EU classification
 Xn Symbol
 R: 20/21/22-36/38-43
 S: (2-)26-28
 Note: D
UN classification
 UN Hazard Class: 6.1
 UN Pack Group: III
GHS classification
 Signal: Danger
 Flame-Skull
 Flammable liquid and vapour
 Harmful if swallowed
 Toxic in contact with skin
 Causes skin irritation
 Causes eye irritation
 May cause allergic skin reaction
 Toxic to aquatic life

EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-61GT1-III

SAFE STORAGE

Store only if stabilized. Cool. Well closed. Keep in the dark. Separated from strong oxidants, strong bases, strong acids. Separated from food and feedstuffs. Store in an area without drain or sewer access. Provision to contain effluent from fire extinguishing.

IMPORTANT DATA**Physical State; Appearance**

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

Chemical dangers

The substance may polymerize due to heating and under the influence of light, peroxides and base(s). Reacts violently with strong acids, strong bases and strong oxidants causing fire hazard.

Occupational exposure limits

TLV not established.
MAK not established.

Routes of exposure

The substance can be absorbed into the body by inhalation and through the skin and by ingestion.

Inhalation risk

A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20/C.

Effects of short-term exposure

The substance is severely irritating to the eyes, the skin and the respiratory tract.

Effects of long-term or repeated exposure

Repeated or prolonged contact may cause skin sensitization.

PHYSICAL PROPERTIES

Boiling point: 189/C

Melting point: <-10/C

Relative density (water = 1): 1.08

Solubility in water, g/100 ml at 25/C: 5; (moderate.)

Vapour pressure, kPa at 25/C: 0.42

Relative vapour density (air = 1): 4.9

Flash point: <61/C c.c.

Octanol/water partition coefficient as log Pow: 0.96

ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms. It is strongly advised that this substance does not enter the environment.

NOTES

An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert.

ADDITIONAL INFORMATION**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information