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# ReAgent

## GLYCEROL TECH MSDS

According to Regulation (EC) No 1907/2006

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	GLYCEROL TECH
CAS-No.	56-81-5
EC No.	200-289-5
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: <a href="mailto:info@reagent.co.uk">info@reagent.co.uk</a>
PRODUCT NO.	2593
APPLICATION	General chemical reagent
EMERGENCY TELEPHONE	Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

### 2 HAZARDS IDENTIFICATION

Not regarded as a health hazard under current legislation.

CLASSIFICATION (67/548) -

#### ENVIRONMENT

The substance is miscible with water and will spread in water systems. The substance will cause slippery surfaces if spilled.

#### PHYSICAL AND CHEMICAL HAZARDS

The substance is not classified as flammable but is combustible and explosive vapour / air mixtures can be formed at higher temperatures.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

EC No.	200-289-5
CAS-No.	56-81-5

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

**CAUTION!** First aid personnel must be aware of own risk during rescue! Always consider any dangers in the vicinity before approaching to treat the casualty. First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. Place unconscious person on the side in the recovery position and ensure breathing can take place. Never give anything by mouth to an unconscious person. If breathing stops, provide artificial respiration. If other hazardous materials are involved in the incident avoid mouth to mouth contact, use a mechanical device such as a bag and mask.

#### INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

#### INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. If casualty has ingested large amounts or discomfort continues obtain medical attention

#### SKIN CONTACT

As a general precaution remove contaminated clothing and wash the skin with soap and water. If irritation or discomfort occurs obtain medical attention

#### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 5 FIRE-FIGHTING MEASURES

## GLYCEROL TECH

**EXTINGUISHING MEDIA**

Combustible. Water spray, foam, dry powder or carbon dioxide.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

May form explosive mixtures with air.

**SPECIFIC HAZARDS**

In case of fire, toxic fumes or vapours may be formed.

**6 ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

**ENVIRONMENTAL PRECAUTIONS**

Avoid unauthorised discharge to the environment. Large spillages or uncontrolled discharge to water systems must be alerted to the Environmental Agency or other regulatory body.

**SPILL CLEAN UP METHODS**

Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water.

**7 HANDLING AND STORAGE**

**USAGE PRECAUTIONS**

Avoid inhalation of vapours/spray and contact with skin and eyes. Avoid sources of ignition when vapour / air mixtures are produced.

**STORAGE PRECAUTIONS**

Store in closed original container at temperatures between 15°C and 25°C. Store away from direct sunlight and moisture It is advisable to store in a bunded area or use other protective measures such as a sump pallet or storage tray.

**STORAGE CLASS**

Chemical storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
GLYCEROL TECH	OES		10 (mist) mg/m3			

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. If mists are generated then work under fume extraction Use an explosion proof extraction system.

**RESPIRATORY EQUIPMENT**

Wear suitable respiratory protection if mists or excessive amounts of vapours are produced. Consult with the supplier as to the compatibility of the equipment with the chemical of concern. CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use air supplied system.

**HAND PROTECTION**

Wear protective gloves. Rubber or plastic

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Provide eyewash station and safety shower. Wear suitable protective clothing as protection against splashing or contamination. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts.

**HYGIENE MEASURES**

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Odourless		
SOLUBILITY	Miscible with water		
BOILING POINT (°C)	290	MELTING POINT (°C)	18
RELATIVE DENSITY	1.26	VAPOUR DENSITY (air=1)	3.17
pH-VALUE, DILUTED SOLUTION	About 5 10%	FLASH POINT (°C)	About 180
AUTO IGNITION TEMPERATURE (°C)	392	FLAMMABILITY LIMIT - LOWER(%)	0.9

## GLYCEROL TECH

FLAMMABILITY LIMIT - UPPER(%) 19

**10 STABILITY AND REACTIVITY**

## STABILITY

Hygroscopic.

## CONDITIONS TO AVOID

Avoid heat, direct sunlight and moisture. Avoid storage with incompatible materials. Avoid frost.

## HAZARDOUS POLYMERISATION

Will not polymerise.

## MATERIALS TO AVOID

Strong oxidising substances. Nitric acid. Sulphuric acid. Halogens Phosphorous oxides The possibility of reaction with other materials cannot be excluded.

## HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire or thermal decomposition the following may be formed. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Acrolein Fire may result in the reaction with other substances to produce hazardous products.**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50 12600 mg/kg (oral rat)

## INHALATION

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

## INGESTION

Ingestion of large amounts may cause headache, nausea, vomiting and diarrhoea

## SKIN CONTACT

May cause irritation on prolonged or repeated contact.

## EYE CONTACT

May irritate

## HEALTH WARNINGS

Although not classified as hazardous, the product should be treated with the care and attention appropriate to chemicals.

**12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water, waste water or soil.

## MOBILITY

The product will be dispersed in water systems.

## BIOACCUMULATION

Low bioaccumulation potential.

## DEGRADABILITY

Good biodegradability

**13 DISPOSAL CONSIDERATIONS**

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Avoid unauthorised disposal. Do not dump illegally onto land or into water.

**14 TRANSPORT INFORMATION**

GENERAL The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

**15 REGULATORY INFORMATION**

## RISK PHRASES

NC Not classified.

## SAFETY PHRASES

NC Not classified.

## UK REGULATORY REFERENCES

Chemicals (Hazard Information &amp; Packaging) Regulations.

**GLYCEROL TECH**

## EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

## GUIDANCE NOTES

Approved Classification and Labelling Guide (CHIP 4)

**16 OTHER INFORMATION**

## GENERAL INFORMATION

This datasheet is not intended to be a replacement for a full risk assessment, these should always be carried out by competent persons. Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

## REVISION COMMENTS

General rewrite

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## SAFETY DATA SHEET STATUS

Approved.