

1,1,1-TRIMETHYLOLPROPANE

0366

October 2005

CAS No: 77-99-6

RTECS No: TY6470000

Tris(hydroxymethyl)propane
2-Ethyl-2-(hydroxymethyl)-1,3-propanediol
Propylidynetrimethanol
Hexaglycerol
Hexaglycerine
 $C_6H_{14}O_3$
Molecular mass: 134.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
Skin		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Eyes	Redness.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Cough.	Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL

Personal protection: P1 filter respirator for inert particles. Sweep spilled substance into containers. Wash away remainder with plenty of water.

PACKAGING & LABELLING**EMERGENCY RESPONSE****SAFE STORAGE**

Separated from strong oxidants. Dry. Well closed.

IPCS

International
Programme on
Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS TO WHITE HYGROSCOPIC CRYSTALS OR PELLETS

Chemical dangers

Reacts violently with strong oxidants.

Occupational exposure limits

TLV not established.

MAK not established.

Inhalation risk

A nuisance-causing concentration of airborne particles can be reached quickly when dispersed.

Effects of short-term exposure

May cause mechanical irritation to the eyes and the respiratory tract.

PHYSICAL PROPERTIES

Boiling point: 292-297/C

Melting point: 58/C

Density: 1.084 g/cm³

Solubility in water: at 20/C miscible

Relative vapour density (air = 1): 4.63

Flash point: 172/C c.c.

Auto-ignition temperature: about 375/C

Explosive limits, vol% in air: 2.0-11.8

Octanol/water partition coefficient as log Pow: - 0.5

ENVIRONMENTAL DATA

NOTES

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