

TRIMETHYLOLPROPANE TRIACRYLATE CAS No 15625-89-5	MATERIAL SAFETY DATA SHEET SDS/MSDS
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Trimethylolpropane Triacrylate

CAS-No. : 15625-89-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd
7/28 Vardaan House
New Delhi -110002
INDIA

Telephone : +91 11 49404040

Email : care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Skin sensitisation (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

Precautionary statement(s)

P280

Wear protective gloves.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : TMPTA

Formula : $C_{15}H_{20}O_6$

Molecular weight : 296.32 g/mol

CAS-No. : 15625-89-5

EC-No. : 239-701-3

Index-No. : 607-111-00-9

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Trimethylolpropane triacrylate		
CAS-No.	15625-89-5	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; H315, H319, H317
EC-No.	239-701-3	
Index-No.	607-111-00-9	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	Melting point/freezing point: < -19.99 °C at ca.1,013 hPa - OECD Test Guideline 102
f) Initial boiling point and boiling range	> 390 °C at ca.1,013 hPa - OECD Test Guideline 103
g) Flash point	194.5 °C at ca.1,013 hPa - closed cup
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	< 0.01 mmHg at 20 °C
l) Vapour density	10.23 - (Air = 1.0)
m) Relative density	1.1 g/cm ³ at 25 °C
n) Water solubility	0.5 g/l at 20 °C - slightly soluble
o) Partition coefficient: n-octanol/water	log Pow: 0.67 at 23 °C
p) Auto-ignition temperature	385 °C at 1,013 hPa
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

Surface tension	49.9 mN/m at 22 °C
Relative vapour density	10.23 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

May polymerize on exposure to light.

10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases, Brass, Copper, Steel (all types and surface treatments), Iron and iron salts.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - > 5,000 mg/kg(Trimethylolpropane triacrylate)

LC50 Inhalation - Rat - male and female - 6 h - > 0.55 mg/l(Trimethylolpropane triacrylate)

LD50 Dermal - Rabbit - 5,170 mg/kg(Trimethylolpropane triacrylate)

LD50 Intraperitoneal - Rat - 55 mg/kg(Trimethylolpropane triacrylate)

Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Convulsions or effect on seizure threshold. Behavioral:Ataxia.

Skin corrosion/irritation

Skin - Rabbit(Trimethylolpropane triacrylate)

Result: Irritating to skin. - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit(Trimethylolpropane triacrylate)

Result: Irritating to eyes.

Respiratory or skin sensitisation

Maximisation Test - Guinea pig(Trimethylolpropane triacrylate)

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Ames test(Trimethylolpropane triacrylate)

S. typhimurium

Mutagenicity (micronucleus test)(Trimethylolpropane triacrylate)

Mouse - male and female

Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(Trimethylolpropane triacrylate)

Specific target organ toxicity - single exposure

No data available(Trimethylolpropane triacrylate)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Trimethylolpropane triacrylate)

Additional Information

Repeated dose toxicity - Rat - male and female - No observed adverse effect level - \geq 200 mg/kg(Trimethylolpropane triacrylate)

RTECS: AT4810000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Trimethylolpropane triacrylate)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 - Leuciscus idus (Golden orfe) - 1.47 mg/l - 96 h(Trimethylolpropane triacrylate) (DIN 38412)

Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia magna (Water flea) - 19.9 mg/l - 48 h(Trimethylolpropane triacrylate)

Toxicity to algae static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 4.86 mg/l - 96 h(Trimethylolpropane triacrylate)

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.