

1 Identification of substance

- **Trade name:** Trimethylolpropane molten
- **Application of the substance / the preparation** Chemical intermediate
- **Manufacturer/Supplier:**
Perstorp Polyols, Inc.
600 Matzinger Road
Toledo, Ohio 43612
(419) 729-5448
800-537-0280
Fax: 419-729-3291
- **Information department:** EHS-department Perstorp Specialty Chemicals AB
- **Emergency information:**
(United States) - CHEMTREC 1-800-424-9300.
(Int.) +46 8 337043 (Emergency Response Center, Sweden)

2 Composition/Data on components

• **Chemical components:**

77-99-6	2-Ethyl-2-hydroxymethyl-1,3-propanediol	90-100%
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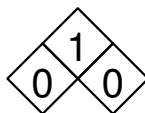
3 Hazards identification

• **Information pertaining to particular dangers for man and environment:**

Warning! Hot melt.
May cause thermal burns.

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**

HEALTH	0
FIRE	1
REACTIVITY	0

Health = 0
Fire = 1
Reactivity = 0

4 First aid measures

- **After inhalation:** Take affected persons into fresh air and keep quiet.
- **After skin contact:**
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product away from the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Seek medical treatment.
- **After swallowing:** Rinse out mouth and then drink plenty of water or milk.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

02/13/2008

Reviewed on 02/13/2008

Trade name: **Trimethylolpropane molten**

(Contd. of page 1)

- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:** Allow to solidify. Pick up mechanically.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Only store in heated receptacles.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
Chloroprene rubber, CR
Nitrile rubber, NBR
Natural rubber, NR
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	Liquid 110 °C
Color:	Colorless
Odor:	Mild

· Change in condition

Melting point/Melting range:	57-62°C (135-144 °F)
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(Contd. on page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

02/13/2008

Reviewed on 02/13/2008

Trade name: Trimethylolpropane molten

(Contd. of page 2)

Boiling point/Boiling range:	160 °C (320 °F) (0,7 kPa)
· Flash point:	172 °C (342 °F) (DIN 51758)
· Ignition temperature:	414 °C (777 °F) (DIN 51794)
· Vapor pressure at 50 °C (122 °F):	< 10 Pa
· Density at 80 °C (176 °F):	1080 kg/m ³ Dens. 1060 kg/m ³ (120 °C).
· Solubility in / Miscibility with Water:	Fully miscible.
· pH-value (100 g/l) at 20 °C (68 °F):	6.5
· Segregation coefficient (n-octanol/water):	-0.47 log POW

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

77-99-6 2-Ethyl-2-hydroxymethyl-1,3-propanediol

Oral	LD50	> 5000 mg/kg (rat)
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Dermal	LD50	> 500 mg/kg (rat)
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- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Other information (about experimental toxicology):** Ames test: Negative (Not a mutagen)

- **Subacute to chronic toxicity:**

77-99-6 2-Ethyl-2-hydroxymethyl-1,3-propanediol

AMES test	Negative OECD 471 (salmonella typhimurium)
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12 Ecological information

- **Information about elimination (persistence and degradability):**

77-99-6 2-Ethyl-2-hydroxymethyl-1,3-propanediol

COD	1620 mg/g (-)
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Zahn-Wellen	99 % (-)
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- **Other information:** The product is easily biodegradable.

- **Behavior in environmental systems:**

- **Mobility and bioaccumulation potential:** Does not accumulate in organisms

- **Ecotoxic effects:**

- **Acquatic toxicity:**

77-99-6 2-Ethyl-2-hydroxymethyl-1,3-propanediol

EC50/96 h	> 1000 mg/l (daphnia)
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(Contd. on page 4)

Material Safety Data Sheet
acc. to ISO/DIS 11014

02/13/2008

Reviewed on 02/13/2008

Trade name: Trimethylolpropane molten

(Contd. of page 3)

LC50/96 h | > 100 mg/l (fish)

· **Remark:** Harmless to fish up to the tested concentration

13 Disposal considerations

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|---|
| · DOT regulations: | |
| · Hazard class: | 9 |
| · Identification number: | UN3257 |
| · Proper shipping name (technical name): | ELEVATED TEMPERATURE LIQUID, N.O.S. |
| · Land transport ADR/RID (cross-border): | |
| · ADR/RID class: | 9 Miscellaneous dangerous substances and articles |
| · UN-Number: | 3257 |
| · Packaging group: | III |
| · Description of goods: | 3257 ELEVATED TEMPERATURE LIQUID, N.O.S. |
| · Maritime transport IMDG: | |
| · IMDG Class: | 9 |
| · UN Number: | 3257 |
| · Packaging group: | III |
| · Marine pollutant: | No |
| · Proper shipping name: | ELEVATED TEMPERATURE LIQUID, N.O.S. |

· **Transport/Additional information:** Dens. 1056 kg/m³ (105-125 °C).

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

(Contd. on page 5)

Material Safety Data Sheet
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02/13/2008

Reviewed on 02/13/2008

Trade name: Trimethylolpropane molten

(Contd. of page 4)

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canadian Domestic Substance List (DSL)**

All ingredients are listed.

· **Phippines Inventort of Chemicals and Chemical Substances**

2-Ethyl-2-hydroxymethyl-1,3-propanediol

· **Chinese Chemical Inventory of Existing Chemical Substances**

All ingredients are listed.

· **Australian Inventory of Chemical Substances**

2-Ethyl-2-hydroxymethyl-1,3-propanediol

· **Japan Exisiting and New chemical Substance List (ENCS)**

All ingredients are listed.

· **Korea Exisiting Chemical Inventory**

77-99-6 | 2-Ethyl-2-hydroxymethyl-1,3-propanediol

KE-13838

· **European EINECS/ELINCS Listing**

All ingredients are listed.

· **Product related hazard informations:**

The product is not subject to identification regulations according to directives on hazardous materials.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** EHSQ-department, Perstorp Specialty Chemicals AB.

USA