

HINDUSTAN POLYAMIDES AND FIBRES LTD.
MATERIAL SAFETY DATA SHEET

3, 3, 5 - TRIMETHYL CYCLOHEXANOL
(TMCH)

01 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product name : 3, 3,5- TRIMETHYL CYCLOHEXANOL
(TMCH)

Intended use : Perfumery and Flavor Ingredient

Company : Hindustan Polyamides and Fibres Limited (HPFL)
1004, Peninsula Towers, 10 th Floor,
Peninsula Corporate Park, G.K. Marg,
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02 - HAZARDS IDENTIFICATION

General : Prolonged or repeated contact with skin and
eyes by inhalation may cause irritation.

Hazard Symbol : Xi Irritant

Risk Phrase : R36 Irritating to eyes.
R52/53 Harmful to aquatic organisms, may cause
long-term adverse effects in the aquatic
environment.

Environment : When Spilled, can contaminate soil, ground and
surface waters.

03 -COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name : 3,3,5- Trimethyl Cyclohexan-1-ol

Synonyms : 1-Methy-3-Dimethyl Cyclohexan-5-ol OR
3,3,5- Trimethyl -1-Cyclohexanol OR
Cyclonol OR Dihydroisophorol OR Homomenthol

Formula : C₉H₁₈O

Molecular weight : 142.24

CAS Number : 116-02-9

EINECS/ELINCS No.: 204-122-7

FEMA : 3962

HS Code : 2906.12.00

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04 -FIRST-AID MEASURES

- Inhalation : Remove to fresh air. Obtain medical advise
- Eye Exposure : Flush immediately with water for at least 15 minutes. Seek medical advise if irritation persists.
- Skin Exposure : Remove contaminated clothing. Wash the exposed area with water and soap. Seek medical advise if symptoms persist.
- Ingestion : Rinse mouth with water and seek medical advise. Do not induce vomiting.
- Others :Take Risk and Safety Phrases in account- Section 15.

05 -FIRE-FIGHTING MEASURES

- Extinguishing Media : Carbon dioxide, Dry Chemical, foam. Do not use direct water jet on burning material.
- Unusual Fire/Explosion Hazards :
Toxic Gases (Carbon dioxide, carbon monoxide and acrid fumes) are released on burning. Closed containers will build pressure at elevated temperatures. During such condition, keep containers cooled with water spray.

06 -ACCIDENTAL RELEASE MEASURES

- Personal Precautions : Avoid inhalation and contact with skin and eyes. A self contained breathing apparatus is recommended in case of major spillages. Remove ignition sources, Provide ventilation. Contain large spills with sand or inert adsorbent material and dispose according to local regulations.
- Environmental Precautions : Keep away from drains, surface and ground water and soil.

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07 -HANDLING AND STORAGE

- Handling : Follow good manufacturing and industrial hygiene practices. Use Safety Goggles and other safety measures while handling the material
- Storage : Store in a cool, dry and well ventilated place away from heat source. Store in tightly closed containers.
- Fire protection : Keep away from source of ignition and naked flame.

08 -EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure limits:

- EU OEL 8 h (mg/m³) : Not determined
EU STEL 15 mn (mg/m³) : Not determined

Respiratory protection: Avoid inhalation of vapors. Use in well ventilated area.

- Hand protection : The use of chemical resistant gloves recommended
- Eye protection : Use safety goggles while handling the material.
- Skin protection : Avoid contact with the skin
- Ventilation : Provide adequate ventilation. Use local exhaust if necessary.

09 -PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Clear, Colorless liquid or fused crystalline solid
- Colour : White
- Odour : Minty, cooling
- Boiling point (°C) : 198 at 760 mm
80.0 at 20.00 mm
- Melting point (°C) : 36
- Flash point (°C) : 74 (CLOSED CUP)
- Vapor pressure (hPa) : 0.0667 at 20°C
- Density (60 °C) : 0.86 g/ml

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10 -STABILITY AND REACTIVITY

Stability & reactivity	:No significant hazard, by itself or in contact with water. Avoid contact with strong acids, alkaline oxidizing agents and Acid anhydrides.
Decomposition	:Carbon dioxide, Carbon Monoxide and unidentified organic compounds may form during combustion.

11 -TOXICOLOGICAL INFORMATION

Not regulated for specific Health hazard (EEC directive 92/2/EC)

Oral LD ₅₀	: Rat – 3250 mg/kg
Dermal LD ₅₀	: Rabbit – >5000 mg/kg
Skin Irritation	: Not available
Skin Sensitization	: Not available - Human
Phototoxicity	: Not available Test: Phototoxicity

12 -ECOLOGICAL INFORMATION

Not Regulated for Environmental hazard

LC ₅₀ for Fish	: Not available
EC ₅₀ for Daphnia	: Not available
LC ₅₀ Algae	: Not available
Biodegradability	: Not determined

13 -DISPOSAL CONSIDERATIONS

Dispose according to local regulations. Avoid disposing into drainage systems and into environment.

14 -TRANSPORT INFORMATION

RID/ADR	Not restricted
IMDG	Not restricted
ICAO/IATA	Not restricted

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15 -REGULATORY INFORMATION

Label	3,3,5- TRIMETHYL CYCLOHEXANOL (TMCH)
Xi	Irritant
R 36	Irritation to eyes
R52/53	Harmful to aquatic organisms, may cause long term adverse effect in the aquatic environment.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advise
EINECS/ELINCS	204 – 122 - 7

16 -OTHER INFORMATION

Water endangering class (WGK): 1 (Slightly hazardous to water)

NFPA rating :Health – 2 Flammability- 2 Reactivity - 0

This chemical substance is not classified in the Annex I of Directive 67/548/EEC.

DISCLAIMER :

The information and recommendation contained in this data sheet represent, to the best of HPFL's knowledge and belief, an accurate and reliable representation as to the known data for this material. The data have been obtained from literature and or referred from other sources available and HPFL cannot guarantee their accuracy, reliability and completeness nor can HPFL assume any liability for any loss or damage arising out of the use of these data. It is the user's responsibility to evaluate this information in a prudent manner and to use it in a manner that is consistent for its particular purpose.