

**HINDUSTAN POLYAMIDES AND FIBRES LTD.**  
**MATERIAL SAFETY DATA SHEET**

**PARA TERTIARY BUTYL CYCLOHEXANOL**  
**(PTBCH)**

**01 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

Product name : PARA TERTIARY BUTYL CYCLOHEXANOL  
(PTBCH)

Intended use : Perfumery Ingredient

Company : Hindustan Polyamides and Fibres Limited (HPFL)  
1004, Peninsula Towers, 10 th Floor,  
Peninsula Corporate Park, G.K. Marg,  
Lower Parel, Mumbai-400013, India  
Tel : 91-22-66513400 ; Fax : 91-22-66513434  
[salomi@hpfl-india.com](mailto:salomi@hpfl-india.com)

**02 - HAZARDS IDENTIFICATION**

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

Hazard Symbol : None

Risk Phrase : None

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

**03 - COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name : 4-tert-Butyl Cyclohexanol

Synonyms : p-tert-Butyle Cyclohexanol OR  
Cyclohexanol, 4-(1,1-dimethyl ethyl) OR  
4-(1,1-dimethyl ethyl) Cyclohexanol OR  
Patchone OR Patchouli hexanol OR Patchona Cruda

Formula : C<sub>10</sub>H<sub>20</sub>O

Molecular weight : 156.2

CAS Number : 98-52-2

EINECS/ELINCS No.: 202-676-4

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 di oxide, 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/m<sup>3</sup>) : Not determined  
EU STEL 15 mn (mg/m<sup>3</sup>) : 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 : Flakes or powder, may form brittle cakes
- Colour : White
- Odour : Woody, Pine-like Balsamic light, camphoraceous
- Density @ 20°C g/ml : 0.8720
- Boiling point (°C) : 226 at 760 mm Hg,  
110 -115 at 15 mm Hg
- Melting point (°C) : 63
- Flash point (°C) : >110 (CLOSED CUP)
- Auto-ignition temp. (°C) : 400

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Vapor pressure (hPa)	: 0.0067 at 20°C	
Water solubility (mg/L)	: 247.000 at 20°C	
Partition coeff. (log Pow)	: 3.06	OECD 117
Kinematic Viscosity(cSt)	: 10.0 at 80°C	

#### 10 -STABILITY AND REACTIVITY

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

#### 11 -TOXICOLOGICAL INFORMATION (Lit.Ref.-RIFM fct 12, p833 (1974))

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

Oral LD <sub>50</sub>	: Rat – 4200 mg/kg
Dermal LD <sub>50</sub>	: Rabbit - > 5000 mg/kg
Skin Irritation	: Not available : Rabbit, : Not available – Human,
Skin Sensitization	: Not available - Human
Phototoxicity	: Not available Test: Phototoxicity

#### 12 -ECOLOGICAL INFORMATION

Not Regulated for Environmental hazard

LC <sub>50</sub> for Fish	: 16.600 mg/l, 46 h,	
EC <sub>50</sub> for Daphnia	: 46.000 mg/l , 48 h,	
LC <sub>50</sub> Algae	: 29.000 mg/l, 72 h, 92/69/EC	
Biodegradability	: Readily biodegradable	OECD 301E

#### 13 -DISPOSAL CONSIDERATIONS

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

