

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

**PARA TERTIARY BUTYL CYCLOHEXYL ACETATE - SUPER**  
**(PTBCHA-SUPER)**

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

Product name : PARA TERTIARY BUTYL CYCLOHEXYL  
ACETATE - SUPER (PTBCHA-SUPER)

Intended use : Perfumery Ingredient

Company : Hindustan Polyamides and Fibres Limited (HPFL)  
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**02 - HAZARDS IDENTIFICATION**

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

Hazard Symbol : N, Dangerous to the environment

Risk Phrase : R51/53, Toxic to aquatic organisms, may cause  
Long-term adverse effects in the aquatic environment

Environment : When Spilled, can contaminate soil, ground and  
surface waters. Toxic for aquatic organisms.

**03 - COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name : p-tert-Butyl Cyclohexyl Acetate

Synonyms : Cyclohexanol, 4-(1,1-dimethyl ethyl) acetate OR  
4-(1,1-dimethyl ethyl) Cyclohexyl acetate OR  
4-tert-Butylcyclohexyl Acetate OR Vertenex OR  
Oryclone OR Woody Acetate OR Lorysia

Formula : C<sub>12</sub>H<sub>22</sub>O<sub>2</sub>

Molecular weight : 198.3

CAS Number : 32210-23-4

EINECS/ELINCS No.: 250-954-9

HS Code : 2915.39.90

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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	: Liquid
Colour	: Colourless
Odour	: Sweet, almost creamy, Woody odour with soft floral undertones.
Boiling point (°C)	: 244 -248 at 760 mm Hg, 100 -105 at 5 mm Hg
Melting point (°C)	: < -50
Flash point (°C)	: >100 (CLOSED CUP)
Auto-ignition temp. (°C)	: 390
Vapor pressure (hPa)	: 0.0400 at 20°C

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Specific gravity (25/25 °C) : 0.936  
Water solubility (mg/L) : 34.000 at 20°C  
  
Partition coeff. (log Pow) : 4.80                      OECD 117

**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 16, p657 (1978))**

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

Oral LD<sub>50</sub> : Rat - >5000 mg/kg  
Dermal LD<sub>50</sub> : Rabbit - > 5000 mg/kg  
Skin Irritation : Moderate irritation : Rabbit, 24 hrs, 100 % undiluted  
: No Irritation - Human, 48 hrs, 4 % Petrolatum  
Skin Sensitization : No sensitisation (Human Max test, 4 %, petrolatum, 0/31)  
Phototoxicity : Negative Test: Phototoxicity Guinea pig

**12 -ECOLOGICAL INFORMATION**

Not Regulated for Environmental hazard

LC<sub>50</sub> for Fish : 8.6 mg/l, 96 h, OECD 2003  
EC<sub>50</sub> for Daphnia : 23.4 mg/l, 48 h, 92/69/EC  
LC<sub>50</sub> Algae : 17.0 mg/l, 72 h, 92/69/EC  
Biodegradability : Readily biodegradable = 75 % CO<sub>2</sub>

**13 -DISPOSAL CONSIDERATIONS**

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

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**14 -TRANSPORT INFORMATION**

	CLASS	UN/ID NUMBER	PACKING GROUP
RID/ADR	9	3082	III
IMDG	9	3082	III
ICAO/IATA	9	3082	III

**15 -REGULATORY INFORMATION**

Lable	PARA TERTIARY BUTYLCYCLOHEXYL ACETATE (PTBCHA)
N	Dangerous for the environment
R 51/53	Toxic to aquatic organisms may cause long term adverse effects, In the aquatic environment.
S 61	Avoid release to the environment.
EINECS/ELINCS	:250-954-9

**16 -OTHER INFORMATION**

Water endangering class (WGK): 2 ( Hazardous to water)

NFPA rating :Health – 1 Flammability- 1 Reactivity - 0

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

**DISCLAIMER :**

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