

HINDUSTAN POLYAMIDES AND FIBRES LTD.
MATERIAL SAFETY DATA SHEET

ORTHO TERTIARY BUTYL CYCLOHEXYL ACETATE
(OTBCHA)

01 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product name : ORTHO TERTIARY BUTYL CYCLOHEXYL
ACETATE (OTBCHA)

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 : 2-tert-Butyl Cyclohexyl Acetate

Synonyms : Cyclohexanol, 2-(1,1-dimethyl ethyl) acetate OR
2-(1,1-dimethyl ethyl) Cyclohexyl acetate OR
o-tert-Butylcyclohexyl Acetate OR
Yalanate Ortho OR Agrumex OR Verdox OR
Ortholate OR Green Acetate

Formula : C₁₂H₂₂O₂

Molecular weight : 198.3

CAS Number : 88-41-5

EINECS/ELINCS No.: 201-828-7

HS Code : 2915.39.90

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04 -FIRST-AID MEASURES

- Inhalation : Remove to fresh air. Obtain medical advise if required
- 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 : Liquid may solidify below 25°C

Colour : Colourless

Odour : Fresh, Fruity, Woody, Floral, Camphoraceous

Boiling point (°C) : 221 at 760 mm Hg,
98 at 1.5 mm Hg

Melting point (°C) : 25

Flash point (°C) : 97 (CLOSED CUP)

Auto-ignition temp. (°C) : 285

Lower explosive limit (Vol%): 0.6

Upper explosive limit (Vol%): 6.7

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Vapor pressure (hPa) : 0.0667 at 20°C
Specific gravity (25/25 °C) : 0.941
Water solubility (mg/L) : 30.000 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 and oxidizing agents.

Decomposition : Carbon dioxide, Carbon Monoxide and unidentified organic compounds may form during combustion.

11 -TOXICOLOGICAL INFORMATION (Lit.Ref.-RIFM fct 30, p135 (1992))

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

Oral LD₅₀ : Rat - >4600 mg/kg
Dermal LD₅₀ : 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, 10 %, in ETDEP
Phototoxicity : Negative Test: Phototoxicity Guinea pig

Carcinogenicity : Per OSHA, IARC, NTP, ACGIH, OEHHA - Prop 65,
RTECS: No.
Reproductive Toxin : Per OSHA, IARC, NTP, ACGIH, OEHHA - Prop 65,
RTECS: No.

12 -ECOLOGICAL INFORMATION

Not Regulated for Environmental hazard

LC₅₀ for Fish : 14.9 mg/l, 48 h, OECD 2003
EC₅₀ for Daphnia : 23.4 mg/l, 48 h, 92/69/EC
LC₅₀ Algae : 17.0 mg/l, 72 h, 92/69/EC
Biodegradability : Not readily biodegradable = 6.0 % OECD 301F 28d
Not inherently biodegradable = 0.0% OECD 302C 28d

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

ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID N.O.S.
ORTHO TERTIARY BUTYLCYCLOHEXYL ACETATE (OTBCHA)

15 -REGULATORY INFORMATION

Label	ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID N.O.S. ORTHO TERTIARY BUTYLCYCLOHEXYL ACETATE (OTBCHA)
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	: 201-828-7

16 -OTHER INFORMATION

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

NFPA rating :Health – 1 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.