

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: ORTHO TERTIARY BUTYL CYCLOHEXYL ACETATE (OTBCHA) 1000000003

Version: 1

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

Product identifier: cis-2-tert-butylcyclohexyl acetate; CAS: 88-41-5; REACH REG: 01-2119970713-33-0006

Other identifiers: 1000000003 ORTHO TERTIARY BUTYL CYCLOHEXYL ACETATE (OTBCHA)

1.2 Relevant identified uses of the substance of mixture and uses advised against

Product uses: Ingredient for fragrances

Please refer to the Exposure Scenario.

1.3 Details of the supplier of the safety data sheet

Company name: Eternis Fine Chemicals Ltd.

Company address: 1004, Peninsula Towers, 10 th Floor,
Peninsula Corporate Park, G.K. Marg,
Lower Parel, Mumbai-400013, India

Contact: Salomi Samuel

E-Mail address: sales@eternis.com

Company phone: +91-22-66513400

1.4 Emergency telephone number

Emergency phone: 011-352-323-3500 (Infotrac Contract No. - 102229)

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of danger: Hazardous to the Aquatic Environment - Long-term Hazard Category 2
H411, Toxic to aquatic life with long lasting effects.

2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: None

Hazard statements: H411, Toxic to aquatic life with long lasting effects.

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M factor: None

Supplemental Information: None

Precautionary statements: P273, Avoid release to the environment.
P391, Collect spillage.
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

Pictograms:



Other hazards: None

Section 3. Composition / information on ingredients

3.1 Substances

Product identifier: cis-2-tert-butylcyclohexyl acetate; CAS: 20298-69-5; REACH REG: 01-2119970713-33-0006

Section 4. First-aid measures

4.1 Description of first aid measures

Inhalation: Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
Eye exposure: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
Skin exposure: Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if irritation persists.
Ingestion: Rinse mouth with water and obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

None expected, see Section 4.1 for further information.

4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

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5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

6.4 Reference to other sections:

Also refer to sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

7.3 Specific end use(s):

Ingredient for flavours and fragrances: Use in accordance with good manufacturing and industrial hygiene practices. Please refer to the Exposure Scenario.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

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8.2 Exposure Controls

Eye/ Skin Protection

Wear protective gloves/eye protection/face protection

Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

Please refer to the Exposure Scenario.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear colourless liquid
Odour:	Floral
Odour threshold:	Not determined
pH:	Not determined
Melting point/freezing point:	29.8 °C
Initial boiling point and boiling range:	232 °C
Flash point	89 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Product does not present an explosion hazard
Vapour pressure:	9.72 Pa @ 23 °C
Vapour density:	Not determined
Relative density:	0.941 g/cm ³ @ 20 °C
Solubility(ies):	Water Solubility 10 mg/l @ 23 °C
Partition coefficient: n-octanol/water:	4.75 log POW
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined

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Viscosity: 5.2 mPas @ 20°C
Explosive properties: None
Oxidising properties: Not determined
9.2 Other information: None

Section 10. Stability and reactivity

10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability:

Good stability under normal storage conditions.

10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

10.4 Conditions to avoid:

Avoid extreme heat.

10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous decomposition products:

Not expected.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute Toxicity: Based on available data the classification criteria are not met.
Acute Toxicity Oral LD50 (rat) 4600mg/kg
Acute Toxicity Dermal LD50 (rabbit) >5000mg/kg
Acute Toxicity Inhalation Based on available data the classification criteria are not met.

Skin corrosion/irritation: Based on available data the classification criteria are not met.

Serious eye damage/irritation: Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity: Based on available data the classification criteria are not met.

Carcinogenicity: Based on available data the classification criteria are not met.

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Reproductive toxicity: Based on available data the classification criteria are not met.

STOT-single exposure: Based on available data the classification criteria are not met.

STOT-repeated exposure: Based on available data the classification criteria are not met.

Aspiration hazard: Based on available data the classification criteria are not met.

Refer to Section 2 for additional information.

Section 12. Ecological information

12.1 Toxicity

Aquatic toxicity: Hazardous to the Aquatic Environment - Long-term Hazard Category 2

EC50 (48 hrs) 9static)	Daphnia magna	17 mg/L
EC50 (72 hrs) (static)	Desmodesmus subspicatus	4.2 mg/L
LC50 (96 hrs)	Danio rerio	5.6 mg/L
NOEC (61 d) (static)	Activated sludge	100 mg/L
NOEC (72 h) (static)	Desmodesmus subspicatus	0.57 mg/kg

12.2 Persistence and degradability

Biodegradation: Not readily biodegradable

12.3 Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow): Calculated 4.42

12.4 Mobility in soil

Adsorption coefficient:

Koc Measured 1300 l/kg
Log Koc Measured 3.12

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

12.7 Additional information

None available

Section 13. Disposal considerations

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13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

14.1 UN number: UN3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cis-2- tert-butylcyclohexyl acetate)

14.3 Transport hazard class(es): 9

Sub Risk: -

14.4. Packing Group: III

14.5 Environmental hazards: Environmentally hazardous for transport

14.6 Special precautions for user: None additional

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code: Not classified

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None additional

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out. Refer to the Annex for further information on Exposure Scenarios

Section 16. Other information

Key to revisions:

Not applicable

Key to abbreviations:

Not applicable

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.