

## **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** ORTHO TERTIARY BUTYL CYCLOHEXYL ACETATE SUPER (OTBCHA-S)

**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: 20298-69-5 (88-41-5)

**Other identifiers:** 100000028 ORTHO TERTIARY BUTYL CYCLOHEXYL ACETATE SUPER (OTBCHA-S)

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

**Product uses:** Ingredient for fragrances

#### **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 (88-41-5)

### 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

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

<b>Acute Toxicity:</b>	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, SOLID, N.O.S. (cis-2-tert-butylcyclohexyl acetate)-s  
**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.