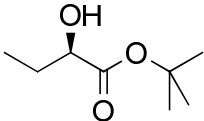



MATERIAL SAFETY DATA SHEET

07/09/2010

1- PRODUCT & COMPANY INFORMATION

Product Name	tert-Butyl-(R)-(+)-2-Hydroxybutyrate	
Catalog Number	OC-0069	
Company	OmegaChem inc. 480 rue Perreault Saint-Romuald (Quebec) Canada G6W 7V6 Tel. (418) 837-4444 Fax (418) 837-5196 info@omegachem.com www.omegachem.com	

2 – COMPOSITION / INGREDIENTS

Substance Name	tert-Butyl-(R)-(+)-2-Hydroxybutyrate		
CAS Number	SARA 313	Formula	
206996-51-2	No	C ₈ H ₁₆ O ₃	

3 – HAZARDS IDENTIFICATION

Emergency Overview
Irritant.
Irritating to eyes, respiratory system and skin.

For additional information on toxicity, please refer to section 11.

4 – FIRST AID

Oral exposure	If swallowed, wash out with water, provided the person is conscious and call a physician.
Inhalation exposure	Remove the person to fresh air. If breathing becomes difficult, call a physician.
Dermal exposure	Immediately wash skin with soap and large amounts of water.
Eye exposure	Flush eyes with large amounts of water for at least 15 minutes. Call a physician.

5 – FIRE FIGHTING MEASURES

Flash point	Autoignition temperature	Flammability
N/A	N/A	N/A
Extinguishing media	Water spray; carbon dioxide; dry chemical powder or appropriate foam.	
Firefighting	Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific hazard(s): Emits toxic fumes under fire conditions. Exposure Hazard(s): Material: Irritant.	

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Method for cleaning up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
Procedure in case of leak or spill	N/A

7 – HANDLING AND STORAGE

Handling	User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing.
Storage	Suitable: Keep tightly closed. Store in a cool dry place.

8 – EXPOSURE CONTROLS / PPE

Engineering controls	Safety shower and eye bath. Mechanical exhaust required.
Personal protective equipment	Respiratory: government approved respirator. Hand: compatible chemical-resistant gloves. Eye: chemical safety goggles.
General hygiene measures	Wash thoroughly after handling. Wash contaminated clothing before reuse.

9 – PHYSICAL / CHEMICAL PROPERTIES

Appearance	Solid		
Molecular Weight	160.22 AMU	Evaporation rate	N/A
pH	N/A	Viscosity	N/A
Boiling point	N/A	Surface tension	N/A
Melting point	52-54°C	Partition coefficient	N/A
Freezing point	N/A	Decomposition temp.	N/A
Vapor pressure	N/A	Flash point	N/A
Vapor density	N/A	Explosion limits	N/A
Saturated Vapor Conc.	N/A	Flammability	N/A
SG / Density	N/A	Autoignition temp.	N/A
Odor threshold	N/A	Refractive index	N/A
Volatile	N/A	Optical rotation	+5.1°, c = 2, CCl ₄
VOC content	N/A	Solubility	N/A
Water content	N/A	Miscellaneous	
Solvent content	N/A	N/A = not available	

10 – STABILITY AND REACTIVITY

Stability	Conditions of Instability: sensitive to air. Materials to Avoid: strong oxidizing agents.
Hazardous decomposition products	Hazardous Decomposition Products: carbon monoxide, carbon dioxide.

11-TOXICOLOGICAL INFORMATION

Route of exposure	
Skin contact	May cause skin irritation.
Skin absorption	May be harmful if absorbed through the skin
Eye	May cause eye irritation.
Inhalation	May be harmful if inhaled. May be irritating to mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed.
Signs and symptoms of exposure	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12 – ECOLOGICAL INFORMATION

	N/A
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13 – DISPOSAL CONSIDERATIONS

Appropriate method of disposal of substance or preparation	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.
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14 – TRANSPORT INFORMATION

DOT	Proper shipping name: none Non-hazardous for transport.
IATA	Non-hazardous for air transport.

15 – REGULATORY INFORMATION

EU	S: 22 24/25 Safety Statements: Do not breathe dust. Avoid contact with skin and eyes.
USA	SARA listed: no
Canada	WHMIS : This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL : No NDSL : No

16 – OTHER INFORMATION

The product is to be used for R&D only. Not for drug, household or other uses.
 The above information is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety measures. It is believed to be correct but does not purport to be inclusive and shall be used only as a guide.
 OmegaChem Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.