3-Hydroxy-2-methylbutanoic Acid: sc-209603



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Product Number:	3-Hydroxy-2-methylbutanoic Acid sc-209603				
Supplier:	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, CA 95060 800.457.3801 or 831.457.3800				
Emergency:	ChemWatch Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112				
2. HAZARDS ID WHMIS Classificat					
D2B	Toxic Material Causing Other Toxic Effects Moderate respiratory irritant Moderate eve irritant				
HMIS Classificatio Health haz					
Flammabi	lity: 0				
Physical hazards: 0 Potential Health Effects					
Inhalation Skin	May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation.				
Eyes Ingestion	Causes eye irritation. May be harmful if swallowed.				
GHS Classification					
Skin irritation (Cate Eye irritation (Cate					
Specific target organ toxicity - single exposure, respiratory tract (Category 3) GHS Label elements, including precautionary statements					
Signal wor	d Warning				
Hazard statement(H315	s) Causes skin irritation.				
H319 H335	Causes serious eye irritation. May cause respiratory irritation.				
Precautionary stat	ement(s)				
P261 P302/P352 P305/P351	/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,				
GHS Label Pictogr	if present and easy to do. Continue rinsing. am				

3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Formula:C5H10O3Molecular Weight:118.13CAS Registry #:473-86-9Synonyms:2-Methyl-3-hydroxybutyric Acid; 3-Hydroxy-2-methylbutyric Acid; Nilic Acid

4. FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust or aerosol formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust or aerosols. Provide appropriate exhaust ventilation at places where dust/aerosol is formed. Normal measures for preventative fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Store at 2-8° C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Oil	рН	N/A	
Melting point	N/A	Boiling point	N/A	
Flash point	N/A	Ignition temperature	N/A	
Lower explosion limit	N/A	Upper explosion limit	N/A	
Vapor pressure	N/A	Density	N/A	
Water solubility	N/A	-		

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid no data available Materials to avoid Strong oxidizing agents. Hazardous decomposition products Hazardous decomposition products formed under fire conditions: carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity no data available Irritation and corrosion Eve/skin/respiratory irritant Sensitization no data available Carcinogenicity IARC: To the best of our knowledge, this compound has not been identified as a possible or potential human carcinogen by IARC Reproductive toxicity/Teratogenicity no data available Germ Cell Mutagenicity no data available Potential health effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation. Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Additional Information **RTECS:** not listed

12. ECOLOGICAL INFORMATION

Toxicity no data available Bioaccumulative potential no data available PBT and vPvB assessment no data available Persistence and degradability no data available Mobility in soil no data available Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. **Contaminated packaging** Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

15. REGULATORY INFORMATION

DSL Status Product is not on the Canadian DSL/NDSL list. WHMIS Classification D2B Toxic Material Causing Other Toxic Effects

Moderate skin irritant Moderate respiratory irritant Moderate eye irritant

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

7/9/2012