



## MATERIAL SAFETY DATA SHEET

Methyl (S)-(+)-3-hydroxy-2-methylpropionate

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	<b>Product identifiers</b>		
	Product name	:	Methyl (S)-(+)-3-hydroxy-2-methylpropionate
	Brand	:	LABORT
	CAS-No.	:	80657-57-4
1.2	<b>Relevant identified uses of the substance or mixture and uses advised against</b>		
	Identified uses	:	Laboratory chemicals, Industrial
1.3	<b>Details of the supplier of the safety data sheet</b>		
	<b>LABORT FINE CHEM PVT LTD.</b> 703-704 ICON BUSINESS CENTRE, OPP. CENTRAL MALL, NR. VALENTINE CINEMA, DUMAS ROAD, SURAT - 395007, (GUJARAT), INDIA.  <b>PH:</b> 0091-261-2725761; 2725388 <b>FAX:</b> 0091-261-2725388  <b>E MAIL:</b> <a href="mailto:info@laboratorychemical.net">info@laboratorychemical.net</a> <b>WEBSITE:</b> <a href="http://www.laboratorychemical.net">www.laboratorychemical.net</a>		
1.4	<b>Emergency telephone number</b>		
	Emergency Phone #	:	091-261-2725388
SECTION 2: Hazards identification			
2.1	<b>Classification of the substance or mixture</b>		
	<b>Classification according to Regulation (EC) No 1272/2008</b> Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.		
2.2	<b>Label elements</b>		
	<b>Labelling according Regulation (EC) No 1272/2008</b>		
	Not a hazardous substance or mixture.		
2.3	<b>Other hazards</b>		
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
SECTION 3: Composition/information on ingredients			
3.1	<b>Substances</b>		
	Synonyms	:	(+)-Methyl L-β-hydroxyisobutyrate (S)-(+)-3-Hydroxy-2-methylpropionic acid methyl ester

	Formula	:	C5H10O3
	Molecular weight	:	118,13 g/mol
	CAS-No.	:	80657-57-4
	<b>Hazardous ingredients according to Regulation (EC) No 1272/2008</b>		
	No components need to be disclosed according to the applicable regulations.		
<b>SECTION 4: First aid measures</b>			
<b>4.1</b>	<b>Description of first aid measures</b>		
	<b>General advice</b> Consult a physician. Show this safety data sheet to the doctor in attendance. <b>If inhaled</b> If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. <b>In case of skin contact</b> Wash off with soap and plenty of water. Consult a physician. <b>In case of eye contact</b> Flush eyes with water as a precaution. <b>If swallowed</b> Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.		
<b>4.2</b>	<b>Most important symptoms and effects, both acute and delayed</b> The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11		
<b>4.3</b>	<b>Indication of any immediate medical attention and special treatment needed</b> No data available		
<b>SECTION 5: Firefighting measures</b>			
<b>5.1</b>	<b>Extinguishing media</b> <b>Suitable extinguishing media</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide		
<b>5.2</b>	<b>Special hazards arising from the substance or mixture</b> Carbon oxides.		
<b>5.3</b>	<b>Advice for firefighters</b> Wear self-contained breathing apparatus for firefighting if necessary.		
<b>5.4</b>	<b>Further information</b> Use water spray to cool unopened containers		
<b>SECTION 6: Accidental release measures</b>			
<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures</b> Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.		
<b>6.2</b>	<b>Environmental precautions</b> Prevent further leakage or spillage if safe to do so. Do not let product enter drains.		
<b>6.3</b>	<b>Methods and materials for containment and cleaning up</b> Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.		
<b>6.4</b>	<b>Reference to other sections</b> For disposal see section 13.		
<b>SECTION 7: Handling and storage</b>			
<b>7.1</b>	<b>Precautions for safe handling</b> Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.		

7.2	<b>Conditions for safe storage, including any incompatibilities</b> Store in cool place. Keep container tightly closed in a dry and well-ventilated place.	
7.3	<b>Specific end use(s)</b> Apart from the uses mentioned in section 1.2 no other specific uses are stipulated	
SECTION 8: Exposure controls/personal protection		
8.1	<b>Control parameters</b>	
	Components with workplace control parameters	
8.2	<b>Exposure controls</b> <b>Appropriate engineering controls</b> Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
	<b>Personal protective equipment</b> <b>Eye/face protection</b> 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). <b>Skin protection</b> 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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. <b>Body Protection</b> Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. <b>Respiratory protection</b> Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). <b>Control of environmental exposure</b> Prevent further leakage or spillage if safe to do so. Do not let product enter drains.	
SECTION 9: Physical and chemical properties		
9.1	<b>Information on basic physical and chemical properties</b>	
	Appearance Form	Form: Liquid
	Colour	Colourless
	Odour	No data available
	Odour Threshold	No data available
	pH	No data available
	Melting point/freezing point	No data available
	Initial boiling point and boiling range	74 °C at 13 hPa - lit.
	Flash point	80 °C - closed cup
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	No data available

	Vapour pressure	No data available
	Vapour density	No data available
	Relative density	1,071 g/cm <sup>3</sup> at 25 °C
	Water solubility	No data available
	Partition coefficient: noctanol/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
<b>9.2</b>	<b>Other safety information</b>	No data available
<b>SECTION 10: Stability and reactivity</b>		
<b>10.1</b>	<b>Reactivity</b> No data available	
<b>10.2</b>	<b>Chemical stability</b> Stable under recommended storage conditions.	
<b>10.3</b>	<b>Possibility of hazardous reactions</b> No data available	
<b>10.4</b>	<b>Conditions to avoid</b> Heat, flames and sparks.	
<b>10.5</b>	<b>Incompatible materials</b> Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents	
<b>10.6</b>	<b>Hazardous decomposition products</b> Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5	
<b>SECTION 11: Toxicological information</b>		
<b>11.1</b>	<b>Information on toxicological effects</b> <b>Acute toxicity</b> No data available <b>Skin corrosion/irritation</b> No data available <b>Serious eye damage/eye irritation</b> No data available <b>Respiratory or skin sensitisation</b> No data available <b>Germ cell mutagenicity</b> No data available <b>Carcinogenicity</b> IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. <b>Reproductive toxicity</b> No data available <b>Specific target organ toxicity - single exposure</b> No data available <b>Specific target organ toxicity - repeated exposure</b> No data available <b>Aspiration hazard</b> No data available	

	<b>Additional Information</b> RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated..		
<b>SECTION 12: Ecological information</b>			
<b>12.1</b>	<b>Toxicity</b>		
	Toxicity to fish No data available		
<b>12.2</b>	<b>Persistence and degradability</b> No data available		
<b>12.3</b>	<b>Bioaccumulation</b> No data available		
<b>12.4</b>	<b>Mobility in soil</b> No data available		
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b> This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
<b>12.6</b>	<b>Other adverse effects</b> No data available		
<b>SECTION 13: Disposal considerations</b>			
<b>13.1</b>	<b>Product</b> This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. <b>Contaminated packaging</b> Dispose of as unused product.		
<b>SECTION 14: Transport information</b>			
<b>14.1</b>	<b>UN number</b>		
	ADR/RID: -	IMDG: -	IATA: -
<b>14.2</b>	<b>UN proper shipping name</b>		
	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods		
<b>14.3</b>	<b>Transport hazard class(es)</b>		
	ADR/RID: -	IMDG: -	IATA: -
<b>14.4</b>	<b>Packaging group</b>		
	ADR/RID: -	IMDG: -	IATA: -
<b>14.5</b>	<b>Environmental hazards</b>		
	ADR/RID: No	IMDG Marine pollutant: No	IATA: No
<b>14.6</b>	<b>Special precautions for user</b> No data available		
<b>SECTION 15: Regulatory information</b>			
<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
<b>15.2</b>	<b>Chemical safety assessment</b> For this product a chemical safety assessment was not carried out		
<b>SECTION 16: Other information</b>			
	<b>Further information</b>		

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