

Safety Data Sheet per OSHA HazCom 2012



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	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures General information Immediately remove any clothing soiled by the product.	
After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor Most important symptoms and effects, both acute and delayed	
Causes severe skin burns. Causes severe skin burns.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling expose	nd containers
Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling expose Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	a containers.
Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)	
Possibly Hydrogen cyanide (HCN) Advice for firefighters	
Protective equipment: Wear self-contained respirator.	
Wear sen-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation Keep away from ignition sources	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up:	
Keep away from ignition sources.	
Abs ['] orb with liquid ['] binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to section 13.	
Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources.	
Reference to other sections	
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage Handling	
Precautions for safe handling Handle under dry protective gas.	
Keep container fightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires:	
Protect against electrostatic charges.	
Fumes căn combine with air to form an explosive mixture. Keep ignition sources away.	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility:	
Store away from oxidizing agents. Store away from air.	
Further information about storage conditions:	
Store under dry inert gas. This product is air sensitive. Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems:	
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters	
Components with limit values that require monitoring at the workplace: Not required.	
Addítional information: No data Exposure controls	
Personal protective equipment	
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.	
General protective and nyglenic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	(Contd. on page 3)
	USA

Product name: (S)-(+)-1-Methoxy-2-propylamine

(Contd. of page 2) Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Tightly sealed goggles Full face protection: Body protection: Protective work clothing.			
9 Physical and chemical properties	s		
Information on basic physical and ch General Information			
Appearance:			
Form: Color:	Liquid Colorless		
Odor:	Amine-like		
Odor threshold:	Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	-95 °C (-139 °F) 98-99 °C (208-210 °F) Not determined		
Flash point:	9 °C (48 °F)		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.		
Lower:	Not determined		
Upper: Vapor prossuro:	Not determined Not determined		
Vapor pressure: Density at 20 °C (68 °F):	0.844 g/cm ³ (7.043 lbs/gal)		
Relative densitv	Not determined. Not determined.		
Vapor density Evaporation rate	Not determined.		
Solubility in / Miscibility with Water:	Fully miscible		
Partition coefficient (n-octanol/water)	: Not determined.		
Viscosity: dynamic:	Not determined.		
kinematic:	Not determined.		
Other information	No further relevant information available.		
 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Air Carbon dioxide Hazardous decomposition products: Carbon monoxide and carbon dioxide Notices Possibly Hydrogen cyanide (HCN) 			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: Harmful if swallowed.			
Swallowing will lead to a strong corrosiv	re effect on mouth and throat and to the danger of perforation of esophagus and stomach.		
LD/LC50 values that are relevant for of Oral LD50 413 mg/kg (rat)	classification:		
Skin irritation or corrosion: Causes s	evere skin burns.		
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn	prious eye damage.		
Germ cell mutagenicity: No effects kn	own.		
Carcinogenicity: No classification data Reproductive toxicity: No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Specific target organ system toxicity	repeated exposure: No effects known		
Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: No effects known.		
Subacute to chronic toxicity: No effect	cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
12 Ecological information			
Toxicity Aquatic toxicity: No further relevant information available.			
Persistence and degradability No further relevant information available.			
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.			
Ecotoxical effects: Remark: Harmful to aquatic organisms			
nemark. nammur to aquatic organisms		(Contd. on page 4)	
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Product name: (S)-(+)-1-Methoxy-2-propylamine	
Additional ecological information: General notes: Do not allow material to be released to the environment without proper g Do not allow product to reach ground water, water course or sewage sys Danger to drinking water if even small quantities leak into the ground. May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment. Harmful to aquatic organisms Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	(Contd. of page 3) jovernmental permits. stem.
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure Uncleaned packagings: Recommendation: Disposal must be made according to official regulati Recommended cleansing agent: Water, if necessary with cleansing agent:	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2733
UN proper shipping name DOT IMDG, IATA	Amines, flammable, corrosive, n.o.s. ((S)-(+)-1-Methoxy-2-propylamine) AMINES, FLAMMABLE, CORROSIVE, N.O.S. ((S)-(+)-1-Methoxy-2-propylamine)
Transport hazard class(es) DOT \longleftrightarrow Class Label Class Label IMDG, IATA \longleftrightarrow	3 Flammable liquids. 3+8 3 (FC) Flammable liquids 3+8
Class Label	3 Flammable liquids. 3+8
Packing group DOT, IMDG, IATA	П
Environmental hazards:	Not applicable.
Special precautions for user Segregation groups	Warning: Flammable liquids Alkalis
Transport in bulk according to Annex II of MARPOL73/78 and the IB	BC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2733, Amines, flammable, corrosive, n.o.s. ((S)-(+)-1-Methoxy-2-propylamine), 3 (8), II
15 Regulatory information Safety, health and environmental regulations/legislation specific for GHS label elements. The product is classified and labeled in accordance Hazard pictograms 	e with 29 CFR 1910 (OSHA HCS)

 P213
 Avoid release to the environment.

 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P309
 IF exposed or if you feel unwell:

 P310
 Immediately call a POISON CENTER/doctor/...

 National regulations
 Immediately call a POISON CENTER/doctor/...

National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.

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Product name: (S)-(+)-1-Methoxy-2-propylamine

Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed.

Substance is not listed

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:
RiD: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: Thermational Civil Aviation Organization
ICAO: Thermational Civil Aviation Organization
ICAO: Thermational Civil Aviation Organization
ICAO: Thermational Martume Code for Dangerous Goods
DAR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department to Transport Association
IATA: International Air Transport Association
IATA: International Agenetics Broke I

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