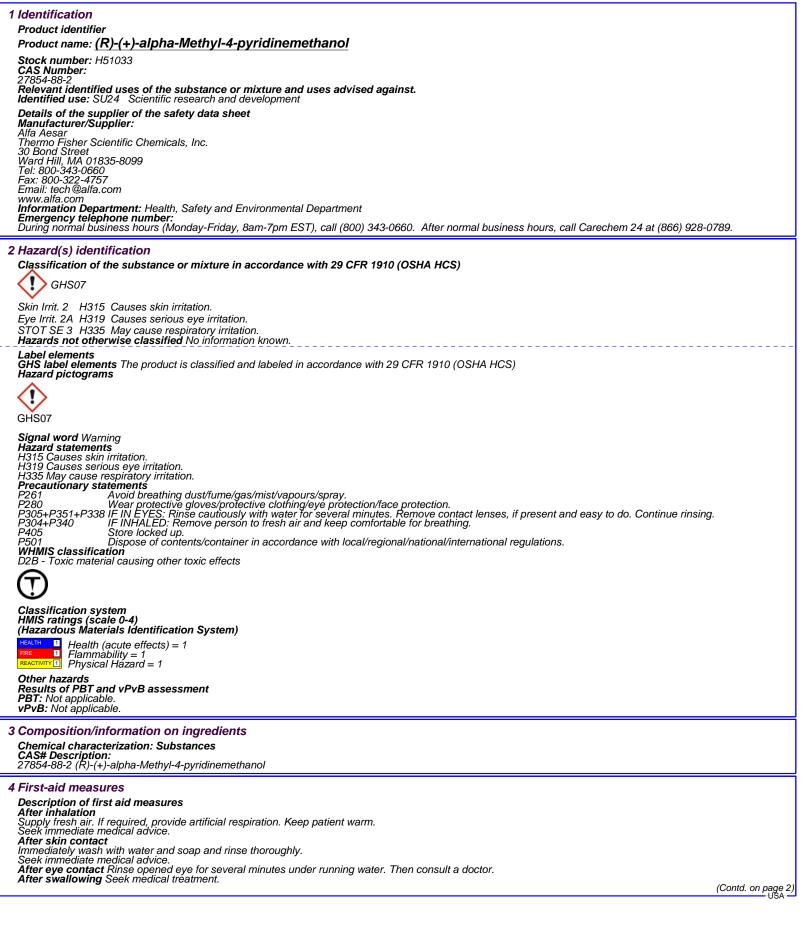


Safety Data Sheet per OSHA HazCom 2012



Product name: (R)-(+)-alpha-Methyl-4-pyridinemethanol (Contd. of page 1) Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. 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 Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: 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. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic 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. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: 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:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Crystalline powder White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition 67 °C (153 °F) Not determined Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

Product name: (R)-(+)-alpha-Methyl-4-pyridinemethanol

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Product name: (R)-(+)-alpha-Methyl	l-4-pyridinemethanol	
		(Contd. of page 2)
Auto igniting:	Not determined.	· · · -
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure:	Product does not present an explosion hazard. Not determined Not determined Not applicable.	
Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined Not determined. Not applicable. Not applicable. Not determined	
Partition coefficient (n-octanol/water) Viscosity: dynamic:		
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions No Conditions to avoid No further relevar Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	nt information available. ents	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	skin irritation. erious eye irritation. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.	
	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. nt	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n	or national regulations to ensure proper disposal. made according to official regulations.	
14 Transport information Not a hazardous material for transporta	ation.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA	Mana	
Class Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	ex II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4)
<u> </u>		

(Contd. of page		
DOT		
Marine Pollutant (DOT):	No	
Regulatory information		
Safety, health and environmental regulations/le	egislation specific for the substance or mixture d labeled in accordance with 29 CFR 1910 (OSHA HCS)	
$\langle \hat{\mathbf{b}} \rangle$		
GHS07		
P305+P351+P338 IF IN EYES: Rinše cautiously v P304+P340 IF INHALED: Remove person t	:/mist/vapours/spray. tive clothing/eye protection/face protection. with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. to fresh air and keep comfortable for breathing.	
P405 Store locked up.	in accordance with local/regional/national/international regulations.	
National regulations This product is not listed in the U.S. Environmenta	al Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric nust be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This is or in formulations for commercial purposes.	
Prop 65 - Chemicals known to cause cancer SL Prop 65 - Developmental toxicity Substance is r Prop 65 - Developmental toxicity, female Substa Prop 65 - Developmental toxicity, male Substan Information about limitation of use: For use onl	not listed.	
market and use must be observed. Substance is not listed.		
Annex XIV of the REACH Regulations (requirin Chemical safety assessment: A Chemical Safety	ng Authorisation for use) Substance is not listed.	
information to ensure proper use and protect the h	supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not i t, or in combination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Depa Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:	-	
RID: Reglement international concernant le transport des marchan IATA-DGR: Dangerous Goods Regulations by the "International Ai ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation ILAO-TI: Technical Instructions by the "International Civil Aviation	ndises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ir Transport Association" (IATA) Organization" (ICAO)	
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemic HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Can LC50: Lethal doose, 50 percent LC50: Lethal doose, 50 percent ACGIH: American Conference of Governmental Industrial Hygienis OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ical Society)	
WHMIS: Workplace Hazardous Materials Information System (Can LCS0: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPvB. very Persistent and very Bioaccumulative	nada)	
ACGIH: American Conference of Governmental Industrial Hygienis OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) URPC: International Amerory for Besearch on Cancer	sts (USA)	