

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: R-(+)-1-Phenylethanol
Stock number: B21160
CAS Number: 1517-69-7
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Details of the supplier of the safety data sheet Manufacturer/Supplier:
Alfa Aesar Thermo Fisher Scientific Chemicals Inc
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660
Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com
www.alfa.com
Information Department: Health, Safety and Environmental Department Emergency telephone number:
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS06 Skull and crossbones
Acute Tox. 3 H301 Toxic if swallowed.
\mathbf{A}
GHS08 Health hazard
Muta. 2 H341 Suspected of causing genetic defects.
GHS07
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
H227 Combustible liquid. Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms
GHS06 GHS08
Signal word Danger Hazard statements
H227 Combustible liquid. H301 Toxic if swallowed.
H315 Causes skin irritation. H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects. H335 May cause respiratory irritation.
Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification B3 - Combustible liquid
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4) (Harardow Materiale Identification System)
(Hazardouš Materials Identification System)
HEALTH I FIRE I FIRE I REACTIVITY Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable. vPvB: Not applicable.
USA USA

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3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 1517-69-7 R-(+)-1-Phenylethanol 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Şeek 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 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 Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. 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 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 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. 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 Receptions for sale managing 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: Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage 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 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 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. **Eye protection:** Safety glasses **Body protection:** Protective work clothing. USA

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9 Physical and chemical properties

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9 Physical and chemical properties	S		
Information on basic physical and ch General Information			
Appearance: Form:	Liquid		
Color:	Colorless		
Odor: Odor throshold:	Not determined		
Odor threshold: pH-value:	Not determined. Not determined.		
Change in condition	Not determined.		
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 97-99 °C (207-210 °F) (20mm Hg) Not determined		
Flash point: Flammability (solid, gaseous)	85 °C (185 °F) Not determined.		
Ignition temperature:	Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits:	r roudet does not present an explosion nazard.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not determined		
Density at 20 °C (68 °F):	1.01 g/cm ³ (8.428 lbs/gal)		
Relative density	1.01 g/cm³ (8.428 lbs/gal) Not determined.		
Vapor density Evaporation rate	Not determined. Not determined.		
Solubility in / Miscibility with			
Water: Partition coefficient (n-octanol/water)	Fully miscible		
Viscosity:	ן. ואטר עפרפווווווופט.		
dynamic:	Not determined		
kinematic: Other information	Not determined. No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Chemical stability Stable under recom	imended storage conditions.		
I hermal decomposition / conditions Possibility of hazardous reactions No	to be avoided: Decomposition will not occur if used and stored according to specifications.		
Conditions to avoid No further relevan			
Incompatible materials: Oxidizing agents			
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: Harmful if swallowed.			
LD/LC50 values that are relevant for classification: No data			
Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation.			
Sensitization: No sensitizing effects known.			
Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity: No effects known.			
Specific target organ system toxicity - repeated exposure: No effects known.			
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.			
Other information (about experimental toxicology):			
Tumorigenic effects have been observed on tests with laboratory animals.			
Mutagenic effects have been observed on tests with laboratory animals. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Behavioral - somnolence (general depressed activity). Lungs, Thorax, or Respiration - respiratory depression Liver - changes in liver weight. Related to Chronic Data - death. Tumorigenic - neoplastic by RTECS criteria. Kidney, Ureter, Bladder - tumors. Additional textinations. To the best of our knowledge the peuto and ebropic toxicity of this substance is not fully known.			
The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:			
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Liver - changes in liver weight.			
Related to Uniforme Data - death. Tumoridenic - neoplastic by RTECS criteria.			
Kidney, Ureter, Bladder - tumors.			
Additional toxicological information:	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.			
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.			
Mobility in soil No further relevant information available. Additional ecological information:			
General notes:			
Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.			
Avoid transfer into the environment. Results of PBT and vPvB assessmen			
	of the second		
PBT: Not applicable.	nt		
PBT: Not applicable. vPvB: Not applicable.			
PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva		USA	

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13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to e Uncleaned packagings: Recommendation: Disposal must be made according to official r Recommended cleansing agent: Water, if necessary with clean	regulations.		
14 Transport information Not a hazardous material for transportation.			
UN-Number DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA	None		
Transport hazard class(es) DOT, ADR, IMDG, IATA			
Class Packing group	None		
DOT, IMDG, IATA Environmental hazards:	None Not applicable.		
Special precautions for user	Not applicable.		
Transport in bulk according to Annex II of MARPOL73/78 and	I the IBC Code Not applicable.		
Transport/Additional information:	Not dangerous according to the above specifications.		
DOT Marine Pollutant (DOT):	No		
Weight Statements Hazard Statements H227 Combustible liquid. H31 Causes skin initiation. H31 Causes skin initiation. H31 Suspected of causing genetic defects. P30 + P310 Neep away from heat/sparks/open flames/hot surfaces. No smoking. P30 + P310 Neep away from heat/sparks/open flames/hot surfaces. No smoking. P30 + P310 Neep away from heat/sparks/open flames/hot surfaces. No smoking. P30 + P310 Neep away from heat/sparks/open flames/hot surfaces. No smoking. P30 + P310 Nee away from heat/sparks/open flames/hot surfaces. No smoking. P30 + P310 Nee away for montental/sparks/open flames/hot surfaces. No smoking. P30 + P310 Nee away for mon heat/sparks/open flam			
information to ensure proper use and protect the health and safet conformance with this Material Safety Data Sheet, or in combinati Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: 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 Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent CAS: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	y of employees." This information is furnished without warranty, and any use of the product not in ion with any other product or process, is the responsibility of the user. (Contd. on page 5)		

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Product name: R-(+)-1-Phenylethanol

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/23/2015 Reviewed on 07/21/2004

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