



<pre>1 Identification Product identification</pre>	4 Identification
Product name: (B)-(-)-2:Chioro-1-phenylethanol Stock number:	
Stock number: 19007 CAS Number: Provide Kas Number: Provide Kas Number: Provide Kas Number:	
Relevant identified uses of the substance or mixture and uses advised against. Manifest user SSUE - Sourchine Statewide and advised against. Manifest user SSUE - Sourchine Statewide and advised against. Manifest user SSUE - Sourchine Statewide advised against. Manifest user SSUE - Sourchine Statewide advised advised against. Manifest user SSUE - Sourchine Statewide advised advi	Stock number: L19067 CAS Number:
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In Proceedings Proceedings Image: Proceedings	I nermo Fisher Scientific Chemicais, inc. 30 Bond Street Word Hill MA 04825 8000
Errati igob Balla.com Profession Dearment Health: Safety and Environmental Department Emergency telephone number: Users for the balances hours (Monday-Friday, Bam-Tpm EST), call (800) 343-0660. After normal business hours, call Canachem 24 at (866) 928-0789. 2 Hazard(s) Identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) General Control of the substance of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) General Control of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) General Control of the substance of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) General Control of the substance of the	Tel: 800-343-0660 Fav: 800-322-4757
Information Department: Health, Safety and Environmental Department Durgent of unital Journal Journa	Email: tech@alfa.com
During northed business hours (Monday-Finday, Bam-Zpm EST), call (800) 343-0600. After normal business hours, call Carechem 24 at (806) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Or Hord Start 17:1 Start 17:1 Attack 17:1 Start 17:1 Attack 17:1 Start 17:1 Start 17:1 Attack	Information Department: Health, Safety and Environmental Department
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WHMIS classification D2B - Toxic material causing other toxic effects D2B Classification system HMIS ratings (scale 0-4) Health (acute effects) = 1 HALS of Acute effects) = 1 Flammability = 1 Health (acute effects) = 1 Flammability = 1 Proceeding Physical Hazards Results of PBT and vPvB assessment PBT ind vPvB assessment PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable. VPvB: Not applicable. Schröft-12-3 (R)-(-)-2-Chiloro-1-phenylethanol Experimentation on ingredients Chemical characterization: Substances CASH Description: Sof51-12-3 (R)-(-)-2-Chiloro-1-phenylethanol Experimentation 4 First-aid measures After inhalation Supply resh air. If required, provide artificial respiration. Keep patient warm. Speek immediate medical advice. After skin contact Immediate medical advice. After skin contact Immediate medical advice. After skin contact transmic throughly. Speek immediate medical advice. After swallowing Seek medical effectal effectal respiration. Then consult a doctor. After swallowing Seek medical respiration.	P405 Store locked up.
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	Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

Product name: (R)-(-)-2-Chloro-1-phenylethanol (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 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 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 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 The selection of suitable 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: Liquid Color: Colorless Odor: Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition Not determined 110 °C (230 °F) (6 mmHg) Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined > 110 °C (> 230 °F) Flash point: Flammability (solid, gaseous) Not determined. Ignition temperature: Decomposition temperature: Not determined Not determined

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	Reviewed on 04/17/200
Product name: (R)-(-)-2-Chloro-1-p	phenylethanol
	(Contd. of page 2
Auto igniting:	Not determined.
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower:	Not determined
Upper: Vapor pressure:	Not determined Not determined
Density at 20 °C (68 °F):	
Relative density Vapor density	1.185 g/cm³ (9.889 lbs/gal) Not determined. Not determined
Evaporation rate	Not determined. Not determined.
Solubility in / Miscibility with Water:	Nat missible or difficult to mix
Partition coefficient (n-octanol/wat	Not miscible or difficult to mix iter): Not determined.
Viscosity:	
dynamic: kinematic:	Not determined. Not determined.
Other information	No further relevant information available.
10 Stability and reactivity	
Reactivity No information known	
Chemical stability Stable under rec	commended storage conditions. Ins to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions	ns to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions Conditions to avoid No further relev	vant information available.
Incompatible materials: Oxidizing a Hazardous decomposition product	agents c ts: Carbon monoxide and carbon dioxide
11 Toxicological information	
Information on toxicological effect	ts
Acute toxicity: No effects known. LD/LC50 values that are relevant for	
Skin irritation or corrosion: Causes	es skin irritation.
Eye irritation or corrosion: Causes Sensitization: No sensitizing effects	
Germ cell mutagenicity: No effects	s known.
Carcinogenicity: No classification da Reproductive toxicity: No effects kr	data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Specific target organ system toxic	city - repeated exposure: No effects known.
Specific target organ system toxic	city - single exposure: May cause respiratory irritation.
Aspiration hazard: No effects known Subacute to chronic toxicity: No ef	n. Affects known
Additional toxicological informatic	on: 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	it information available.
Persistence and degradability No f	further relevant information available
Bioaccumulative potential No furthe Mobility in soil No further relevant in	er relevant information available.
Additional ecological information:	
General notes:	to the environment without proper governmental permits.
Avoid transfer into the environment.	
Results of PBT and vPvB assessm	
PBT: Not applicable. vPvB: Not applicable.	
Other adverse effects No further rel	levant information available.
13 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, loc	cal or national regulations to ensure proper disposal.
Uncleaned packagings: Recommendation: Disposal must be	be made according to official regulations.
14 Transport information Not a hazardous material for transport	prtation.
UN-Number DOT, IMDG, IATA	None
UN proper shipping name DOT, IMDG, IATA	None
Transport hazard class(es)	110115
DOT, ADR, IMDG, IATA	
DOT, ADR, IMDG, IATA Class	None
Packing group DOT, IMDG, IATA	
	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
• •	nex II of MARPOL73/78 and the IBC Code Not applicable.
Transport/Additional information:	
	(Contd. on page
	U3A

	(Contd. of page
DOT	
DOT Marine Pollutant (DOT):	No
GHS label elements The product is classified and Hazard pictograms	/legislation specific for the substance or mixture nd labeled in accordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container National regulations This product is not listed in the U.S. Environmenta to research and development only. This product not be used for commercial purpose SARA Section 313 (specific toxic chemical list California Proposition 65 Prop 65 - Chemicals known to cause cancer S Prop 65 - Developmental toxicity, female Substance is a Prop 65 - Developmental toxicity, male Substan Information about limitation of use: For use on Other regulations, limitations and prohibitive i Substance of Very High Concern (SVHC) acco The conditions of restrictions according to Art market and use must be observed. Substance is not listed.	ctive 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. r in accordance with local/regional/national/international regulations. tal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This is tings) Substance is not listed. Substance is not listed. stance is not listed. ance is not listed. ance is not listed. ance is not listed. Inly by technically qualified individuals. regulations ording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. rticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the rticle 67 and Annex XVII of the Regulation (EC) No 1907/2006.
information to ensure proper use and protect the l	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 in et, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Dep Date of preparation / last revision 11/24/2015 / 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 Chem HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Ca LC50: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygieni OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	partment / - mical Society) anada)