



Page 1/5 Printing date 12/14/2017 Revision date 12/14/2017 Version 1

	Version 1
1 Identification Product identifier	
Product name: (S)-1-Cyclopropylethylamine	
Stock number: H27499 CAS Number: 195604-39-8	
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 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-	0790
2 Hazard(s) identification	.0769.
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
Flam. Liq. 2 H225 Highly flammable liquid and vapor.	
Skin Corr. 1B H314 Causes severe skin burns and eye damage.	
Eye Dam. 1 H318 Causes serious eye damage. 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	
GHS02 GHS05	
Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. H314 Causes severe skin burns and eye damage.	
Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe dusts or mists.	
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse 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 B2 - Flammable liquid D2B - Toxic material causing other toxic effects	
E - Corrosive material	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH I Health (acute effects) = 3	
FIRE Flammability = 3 REACTIVITY Physical Hazard = 1 Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description: 195604-39-8 (S)-1-Cyclopropylethylamine Concentration: ≤100%	
4 First-aid measures	
Description of first aid measures General information Immediately remove any clothing soiled by the product.	(Contra on page 2)
	(Contd. on page 2) USA

Product name: (S)-1-Cyclopropylethylamine

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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 serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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 Keep away from ignition sources Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liguid-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 7 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.	
7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. 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: Protect against electrostatic charges. Fumes can 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 together with acids. Store under tog gadents. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store under (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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment.	

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.

(Contd. on page 3)

Product name: (S)-1-Cyclopropylethylamine

(Contd. of page 2)

Recommended filter device for short term use: Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (ELN)

Protection of hands:

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. **Eye protection:** Tightly sealed goggles Full face protection Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Performation: Protection: Descent action: Protection: Descent action: Des**

Body protection: Protective work clothing.

0 Physical and chemical properties

9 Physical and chemical properties	
Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold:	emical properties Liquid Not determined Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	-68 °C (-90 °F) 95 °C (203 °F) Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	3°C (37°F) Not determined. Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Not determined Not determined 0.799 g/cm³ (6.668 lbs/gal) Not determined. Not determined. Fully miscible Not determined.

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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Acids Acids Air Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides 11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Descent data is a straight of the series of the serie

Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known.

Aspiration hazard: No effects known.

Aspliation nazard. No energy from: Subacute to chronic toxicity: No effects known. 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. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.

(Contd. on page 4)

Additional accological information: General note: Accol transfer into the province or time quantifies to reach ground water, where course or sewage system. Accol transfer into the province of the provinc	Product name: (S)-1-Cyclopropylethylamine		
General notes: Operation of large quantilies to reach ground water, water course or sewage system. Devid and with the performance of theperformance of the performance of the perfo		(Contd. of page 3)	
Waste treatment methods Recommendation Consult sub, local or national regulations to ensure proper disposal. Machine function Machine function Machine function function Machine func	Additional ecological information: General notes: 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 assessment PBT: Not applicable. vPvB: Not applicable.		
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleased processing adjust Recommended cleanising agent: Water, if necessary with cleanising agents. 11 Transport Information UN-Wumber UN-Wumber Dot, IMDG, IATA UN-Wumber Dot, IMDG, IATA UN-Wumber ADR Class	13 Disposal considerations		
UN-Number DOT, IMOS, IATA UN2733 UN proper shipping name DOT, IMOS, IATA Amines, flammable, corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) 2733 Amines, flammable, corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) 2733 Amines, flammable, corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) AMINES, FLAMMABLE, COPROSIVE, N.O.S. ((S)-1-Cyclopropylethylamine) AMINES, FLAMMAB	Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal		
DOT, MUDC, IATA UN2733 UN proper shipping name Annines, flammable, corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) DOT Annines, flammable, corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) AMDG, IATA MANNES, FLAMMABLE, CORROSIVE, N.O.S. ((S)-1-Cyclopropylethylamine) DOT AMMARKES, FLAMMABLE, CORROSIVE, N.O.S. ((S)-1-Cyclopropylethylamine) DOT Image: Corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) Image: Corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) Image: Corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) Image: Corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) Image: Corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) Image: Corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) Image: Corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) Class 3 (FC) Flammable liquids Image: Corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) Class 3 (FC) Flammable liquids Image: Corrosive, n.o.s. ((S)-1-Cyc	14 Transport information		
UN proper shipping name DOT ADR Amines, flammable, corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) 2733 Amines, flammable liquids 3, a OT Image: corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) 2733 Amines, flammable liquids 3, a Image: corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) 2734 Amines, flammable liquids 3, a Image: corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) 2734 Amines, flammable liquids 3, a Image: corrosive, n.o.s. ((S)-1-Cyclopropylethylamine) 2734 Amines, flammable liquids 3, a <t< th=""><th>UN-Number DOT, IMDG, IATA</th><th>UN2733</th></t<>	UN-Number DOT, IMDG, IATA	UN2733	
Transport hazard class(es) DOT	UN proper shipping name DOT ADR		
Image: Class index in the intervention of the interventin of the intervent	Transport hazard class(es)		
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IMDG Impose Class 3 Flammable liquids Label 3/8 IATA 3/8 IATA 3/8 IATA 3/8 Impose 3/8 Class 3 Flammable liquids Label 3/8 Packing group 3 (8) Packing group, DOT, ADR, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids FMS Number: FLS-C Segregation groups Alkalis Stowage Code SG35 Stow "separated from" acids. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Quantity limitations On passenger aircraft/reil: 1 L Marine Pollutant (DOT): No No IMDG 1L Code: E2 Kaimum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	Label	3 Flammable liquids 3, 8	
IMDG Impose Class 3 Flammable liquids Label 3/8 IATA 3/8 IATA 3/8 IATA 3/8 Impose 3/8 Class 3 Flammable liquids Label 3/8 Packing group 3 (8) Packing group, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids FMS Number: FLS-C Segregation groups Alkalis Stowage Code SU2 Clear of living quarters. Segregation Code SG35 Stow "separated from" acids. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT On passenger aircraft/rel: 1 L On cargo aircraft only: 5 L Marine Pollutant (DOT): No No IMDG 1L Code: E2 Marine Pollutant (DOT): No No Marine Pollutant (DOT): No Marine duantities (EQ) 1L Code: E2 Kaimm net quantity per		3 (FC) Flammable liquids	
Label 3/8 IATA Class 3/8 Class	Label	3+8	
Label 3 (8) Packing group DOT, ADR, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids EMS Number: F-E,S-C Segregation groups Alkalis Stowage Category B Stowage Code SG35 Stow "separated from" acids. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT On passenger aircraft/rail: 1 L ODT On cargo aircraft only: 5 L Marine Pollutant (POT): No IMDG 1L Excepted quantities (EQ) 1L Excepted quantities (EQ) 1L Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	Label	3 Flammable liquids 3/8	
Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids EMS Number: F-E,S-C Segregation groups Alkalis Stowage Category B Stowage Code SU2 Clear of living quarters. Segregation Code SG35 Stow "separated from" acids. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 1 L Marine Pollutant (DOT): No IMDG 1L Limited quantities (LQ) 1L Excepted quantities (EQ) 1L Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml			
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Segregation groups Alkalis Stowage Category B Stowage Code SW2 Clear of living quarters. Segregation Code SG35 Stow "separated from" acids. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Image: Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 1 L DOT On cargo aircraft only: 5 L Marine Pollutant (DOT): No IMDG 1L Limited quantities (LQ) 1L Excepted quantities (EQ) 1L Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		Not applicable.	
Segregation groups Alkalis Stowage Category B Stowage Code SW2 Clear of living quarters. Segregation Code SG35 Stow "separated from" acids. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Image: Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 1 L DOT On cargo aircraft only: 5 L Marine Pollutant (DOT): No IMDG 1L Limited quantities (LQ) 1L Excepted quantities (EQ) 1L Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	Special precautions for user	Warning: Flammable liquids	
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Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		NO	
UN "Model Regulation": UN 2733 AMINES, FLAMMABLE, CORROSIVE, N.O.S. ((S)-1- CYCLOPROPYLETHYLAMINE), 3 (8), II	Limited quantities (LQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
	UN "Model Regulation":	UN 2733 AMINES, FLAMMABLE, CORROSIVE, N.O.S. ((S)-1- CYCLOPROPYLETHYLAMINE), 3 (8), II	

15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

(Contd. on page 5) USA

Product name: (S)-1-Cyclopropylethylamine

Hazard pictograms



Signal word Danger Hazard statements

H225 Highly flammable liquid and vapor. H314 Causes severe skin burns and eye damage.

 H314 Causes severe skin burns and eye damage.

 Precautionary statements

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 P260
 Do not breathe dusts or mists.

 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

 P305+P351+P338 If in eyes: Rinse 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.

National regulations

National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or 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. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, complexity of the Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Differentiation about 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 obser

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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department

Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page. Abreviations and acronyms: ADR: 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 of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Vary High Concern VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Setty and Health Administration (USA) NTP: National Toxicology Program (USA) TRC: International Agency (USA) SHC: Subjection Agency for Research on Cancer EPA: Environmental Protection Agency (USA) EFA: Environmental Protection Agency (USA) Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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