



1 Identification	
Product identifier	
Product name: 2-Cyclohexylethanol	
Stock number: B20782, L12254 CAS Number:	
4442-79-9	
EC number: 224-672-1	
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	
Eax: 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 (86	6) 928-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
V GHSU/	
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin.	
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	
$\wedge$	
GHS07	
Signal word Warning     Hazard statements     H227   Combustible liquid.     H302+H312 Harmful if swallowed or in contact with skin.     Precautionary statements     P210   Keep away from heat/sparks/open flames/hot surfaces. No smoking.     P280   Wear protective gloves/protective clothing/eye protection/face protection.     P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.     P312   Call a POISON CENTER/doctor//if you feel unwell.     P403+P235 Store in a well-ventilated place. Keep cool.     P501   Dispose of contents/container in accordance with local/regional/national/international regulations.     WHINS classification     B3 - Combustible liquid	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH 2   FIRE 2   Flammability = 2	
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:	
4442-79-9 2-Cvclohexvlethanol	
Identification number(s): EC number: 224-672-1	
4 First-aid measures	
Description of first aid measures	
After inhalation Supply fresh air, If required, provide artificial respiration, Keep patient warm,	
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.	(Contra an and Co
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(Contd. of page 1) 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 freatment 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). 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 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: 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 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. Do not inhale dust / smoke / mist Do not inhale dust / smoke / mist. 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 Device the start of the work of a the second Body protection: Protective work clothing 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Liquid Colorless Odor: Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition -20 °C (-4 °F) 206-207 °C (403-405 °F) Melting point/Melting range: Boiling point/Boiling range:

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		(Contd. of page 2)		
Sublimation temperature / start:	Not determined			
Flash point: Flammability (solid, gaseous)	86 °C (187 °F) Not determined.			
Ignition temperature: Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper:	Not determined Not determined			
Vapor pressure:	Not determined			
Density at 20 °C (68 °F): Relative density	0.92 g/cm³ (7.677 lbs/gal) Not determined.			
Vapor density <sup>*</sup> Evaporation rate	Not determined. Not determined.			
Solubility in / Miscibility with Water: Not determined				
Partition coefficient (n-octanol/water): Not determined. Viscosity:				
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 recon	nmended storage conditions.			
Thermal decomposition / conditions Possibility of hazardous reactions R	s to be avoided: Decomposition will not occur if used and stored according to specifications.			
Conditions to avoid No further relevant	int information available			
Hazardous decomposition products.	ents :: Carbon monoxide and carbon dioxide			
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: Harmful in contact with skin.				
Harmful if swallowed. Danger through skin absorption.				
The Registry of Toxic Effects of Chemi	ical Substances (RTECS) contains acute toxicity data for this substance.			
LD/LC50 values that are relevant for classification: Oral LD50 940 mg/kg (rat)				
Dermal LD50 1220 mg/kg (rab)it)				
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation				
Sensitization: No sensitizing effects known.				
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.				
Reproductive foxicity: 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: No effects known. Aspiration hazard: No effects known.				
Subacute to chronic toxicity: No effe	ects known. : To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
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12 Ecological information				
Toxicity Aquatic toxicity: No further relevant ir	nformation available.			
Persistence and degradability No fur Bioaccumulative potential No further	r relevant information available.			
Mobility in soil No further relevant info	ormation available.			
General notes:	Additional ecological information: General notes:			
Do not allow undiluted product or large	o the environment without proper governmental permits. A quantities to reach ground water, water course or sewage system.			
Avoid transfer into the environment. Results of PBT and vPvB assessment				
<b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable.	PBT: Not applicable.			
Other adverse effects No further relev	vant information available.			
13 Disposal considerations				
Waste treatment methods				
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:				
Recommendation: Disposal must be made according to official regulations.				
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name				
DOT, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
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Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78	
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	
15 Regulatory information	
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled ir Hazard pictograms	especific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
National regulations All components of this product are listed in the U.S. Environ All components of this product are listed on the Canadian Do SARA Section 313 (specific toxic chemical listings) Subs California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by techn Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 an market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authori Chemical safety assessment: A Chemical Safety Assessment 16 Other information	protection/face protection. protor//if you feel unwell. inwell. inwell. inth local/regional/national/international regulations. Intental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Domestic Substances List (DSL). Domestic Substances List (DSL). Domestic Substances List (DSL). Isstance is not listed. is not listed. Ist
Employers should use this information only as a supplement information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in com	nt to other information gathered by them, and should make independent judgement of suitability of this I safety of employees. This information is furnished without warranty, and any use of the product not in mbination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Rou. DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances 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 dose, 50 percent LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA)	oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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