



1 Identification Product identifier Product name: 1-Ethylcyclohexanol Stock number: B20787 CAS Number: 1940-18-7 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 Alla Aesai Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 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) ! GHS07 Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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 ! GHS07 Signal word Warning Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements D061 Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects Ţ Classification system (Hazardous Materials Identification System) Health (acute effects) = 1
Flammability = 1 Flammability = 1 Flammability = 1 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: 1940-18-7 1-Ethylcyclohexanol 4 First-aid measures Description of first aid measures 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.

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(Contd. of page 1) 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 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: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation 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 Recautions for safe nanoing 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 Automati 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 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. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Low melting solid Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Not applicable Flash point: Flammability (solid, gaseous) Not determined Ignition temperature: Decomposition temperature: Not determined Not determined (Contd. on page 3)

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		viewed on 01/26/2007
Product name: 1-Ethylcyclohexanol		
		(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 applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water): Viscosit <u>y</u> :		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known		
Chemical stability Stable under recommendations f	nended storage conditions. <b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications.	
Possibility of nazardous reactions No	danderous reactions known	
Conditions to avoid No further relevant Incompatible materials: Oxidizing agen	information available.	
Incompatible materials: Oxidizing agen Hazardous decomposition products: (	Sarbon monoxide and carbon dioxide	
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for c	lassification:	
Oral LD50 1300 mg/kg (mouse)		
Skin irritation or corrosion: Causes sk		
Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	ious eye irritation. wn.	
Germ cell mutagenicity: No effects kno	wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	n.	
Specific target organ system toxicity - Specific target organ system toxicity -	• repeated exposure: No effects known. • single exposure: May cause respiratory irritation.	
Aspiration hazard. No effects known		
Subacute to chronic toxicity: No effect Additional toxicological information:	is known. 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 info Persistence and degradability No furth	ormation available.	
Persistence and degradability No turn Bioaccumulative potential No further re	er relevant information available. elevant information available.	
Bioaccumulative potential No further refevant information of the second	nation available.	
Additional ecological information: General notes:		
Do not allow material to be released to the	ne environment without proper governmental permits. uantities 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.	and the foregoing of the prove the foregoing and	
Other adverse effects No further releva	nt information available.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local o	r national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be ma	ade according to otticial regulations.	
<b>14 Transport information</b> Not a hazardous material for transportati	on	
UN-Number		
DOT, IMDG, IATA UN proper shipping name	None	
DOŤ, IMDG, IÁŤA Č	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA		
DOT, IMDG, IATA Environmental hazards:	None Not applicable.	
Special precautions for user	Not applicable.	
	Il of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
		(Contd. on page 4)
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DOT Marine Pollutant (DOT):	No
GHS label elements The product is classified an Hazard pictograms	legislation specific for the substance or mixture d labeled in accordance with 29 CFR 1910 (OSHA HCS)
P304+P340 IF INFIALED: Remove person P405 Store locked up. P501 Dispose of contents/container National regulations This product is not listed in the U.S. Environment to research and development only. This product r product must not be used for commercial purpose SARA Section 313 (specific toxic chemical list California Proposition 65 Prop 65 - Developmental toxicity Substance is Prop 65 - Developmental toxicity, female Subs Prop 65 - Developmental toxicity, meale Substance of be beelopmental toxicity, female Substance Information about limitation of use: For use on Other regulations, limitations and prohibitive a Although this chemical may sometimes be used a Substance of Very High Concern (SVHC) acco The conditions of restrictions according to Ar market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requirin	tings) Substance is not listed. Tubstance is not listed. not listed. tance is not listed. nce is not listed. nce is not listed. If y by technically qualified individuals. regulations as a food or drug or cosmetic, our products are not approved or suitable for such use or for human consumption. refing to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the hy Authorisation for use) Substance is not listed.
<b>Chemical safety assessment</b> : A Chemical Safe <b>6 Other information</b> Employers should use this information only as a sinformation to a should use the properture and protect the	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
Information to ensure proper use and protect the conformance with this Material Safety Data Shee Department issuing SDS: Global Marketing Dep Date of preparation / last revision 11/23/2015 / Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of 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 LD50: Lethal concentration, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygien OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	t or in combination with any other product or process, is the responsibility of the year