



1 Identification
Product identifier Broduct name: Cyclobutanol
Product name: Cyclobutanol Stock number: L02367
CAS Number: 202307 2919-23-5
EC number:
220-858-1 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.
Ward Hill, MA 01835-8099
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) 928-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS02 Flame
Flam. Liq. 2 H225 Highly flammable liquid and vapor. 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
Signal word Danger
Hazard statements
H225 Highly flammable liquid and vapor. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P240 Ground/bond container and receiving equipment. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification
B2 - Flammable liquid
Classification system HMIS ratings (scale 0-4) Hotosical Intertitientian System)
(Hazardouš Materials Identification System)
HEALTH I HEALTH I FIRE I FRE I REACTIVITY I 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:
2919-23-5 Cvclobutanol
Identification number(s): EC number: 220-858-1
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. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing Seek medical treatment. (Contd. on page
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Product name: Cyclobutanol (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 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 Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 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: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keen invition sources away 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. Store away from acid chlorides. Store away from acid anhydrides. 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. 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. 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 Not determined Odor: Odor threshold: Not determined pH-value: Not determined Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: 123-124 °C (253-255 °F) (Contd. on page 3)

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Product name: Cyclobutanol		viewed 011 02/00/2009
		(Contd. of page 2)
Sublimation temperature / start:	Not determined	
Flash point:	21 °C (70 °F)	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density at 20 °C (68 °F):	0.925 g/cm ³ (7.719 lbs/gal)	
Relative density	Not determined.	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with	Not dolorminod.	
Water: Partition coefficient (n-octanol/water	Partly soluble r): 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 record	nmended storage conditions	
Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions A	lo dangerous reactions known	
Conditions to avoid No further releva	nt information available.	
Incompatible materials: Oxidizing agents		
Oxidizing agents Acid chlorides		
Acid anhydrides	: Carbon monoxide and carbon dioxide	
mazaruous decomposition products		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for		
Skin irritation or corrosion: May cau Eye irritation or corrosion: May caus		
Sensitization: No sensitizing effects k	nown.	
Germ cell mutagenicity: No effects ki	nown.	
Carcinogenicity: No classification dat Reproductive toxicity: No effects knc	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity	y - repeated exposure: No effects known.	
Specific target organ system toxicit	y - single exposure: No effects known.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	pets 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 in	nformation available.	
Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further	rther relevant information available.	
Mobility in soil No further relevant info	prmation available.	
Additional ecological information:		
General notes:	the environment without proper governmental permite	
Do not allow undiluted product or large	the environment without proper governmental permits. e quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment.		
Results of PBT and vPvB assessme. PBT: Not applicable.	nt	
vPvB: Not applicable.		
Other adverse effects No further relev	vant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local Uncleaned packagings:	l or national regulations to ensure proper disposal.	
Recommendation: Disposal must be	made according to official regulations.	
14 Transport information		
UN-Number	11/11/100	
DOT, IMDG, IATA UN proper shipping name	UN1120	
DOT	Butanols	
IMDG, IATA	BUTANOLS	Contra an internet
		(Contd. on page 4)

(Contd. on page 4)

	Reviewed on 02/06/2
roduct name: Cyclobutanol	
	(Contd. of pag
Transport hazard class(es)	
	O Elemente la l'anida
Class Label	3 Flammable liquids. 3
Class Label	3 (F1) Flammable liquids
IMDG, IATA	3
Class Label	3 Flammable liquids.
Packing group DOT, IMDG, IATA	
	 Not applicable
Environmental hazards: Special precautions for user	Not applicable. Warning: Flammable liquids
EMS Number:	F-E,S-Ď
Transport in bulk according to Annex II of MARPOL73/78 and	d the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1120, Butanols, 3, II
GHS02 Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. Precautionary statements P210 Keep away from heat/sparks/open flames/hot P280 Wear protective gloves/protective clothing/eye	e protection/face protection
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