

1 Identification Product identifier

Product name: Cyclobutyl methyl ketone

Successful and the substance or mixture and uses advised against. CAS, Mumber: 24.113.42 Case Mumber: 20.113.42 Details of the substance or mixture and uses advised against. Mixture acture/Suppler: Details of the substance or mixture and uses advised against. Details of the substance or mixture and uses advised against. Details of the substance or mixture and uses advised against. Details of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Observed Stream Observed Stream Distriction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Observed Stream Observed Mixerian Distriction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Observed Mixerian Observed Mixerian Distriction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Observed Mixerian Distriction of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Observed Mixerian Distriction of the substance or distriction in accordance with 29 CFR 1910 (OSHA HCS) Observed Mixerian Distriction of the substance or distriction in accordance or substance or distris in accordance or substance or distriction in accor	Product name: Cyclobutyl methyl ketone
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22:1-13:3-9 With the supplier of the substance or mixture and uses advised against. Warning Human Supplier: Data Supplier: Of any Supplier:	3019-25-8 EC number:
Manufacture/Supplier: Therministic Scientific Chemicals, Inc. 30 Bord Street Ward Hill, M. O. 05-6000 Press, 800-322, 4757 Email: End Weishalc.com Information Deartment: Health, Safety and Environmental Department Enderstand Information Deartment: Health, Safety and Environmental Department Enderstand Information Deartment: Health, Safety and Environmental Department Environmental business hours, Call (Bool) 343-0680. After normal business hours, call Carachem 24 at (Bool) 928-0789. 2 Hazard(s) (Identification D Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Best Steel Steel Steel Steel Steel No. Information known. Label elements GHS biebel elements GHS Steel Hame Image: Best Steel No. Information known. Label elements GHS biebel elements GHS Biebel elements GHS Biebel elements GHS Biebel elements Concurrents GHS Steel	221-163-6 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Thermo Fisher Scientific Chemicals, Inc. We will be an end of the second of the seco	Details of the supplier of the safety data sheet Manufacturer/Supplier:
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H226 Flammable liquid and vapour. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P240 Ground/bond container and receiving equipment. P303+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 B2 Flammabile liquid WithMIS ratings (scale 0-4) (Hazardous Materials Identification System) HMIS ratings (scale 0-4) Health international regulations. WHMIS ratings (scale 0-4) Health international value effects) = 1 Health (acute effects) = 1 Health international value effects) = 1 Phone in the acute of the acute of effects) = 1 Health international international value effects) = 1 PHONE Health internation on ingredients Composition/information on ingredients Chemical characterization: Substances CASS Colobulty metry ketone Health induction number(s): EC EC Flammability = 3 Physical Hazards Scomposition/information on ingredients Chemical characterization: Substances CAS& Description: 3019	GHS02
H226 Flammable liquid and vapour. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P240 Ground/bond container and receiving equipment. P303+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 B2 Flammabile liquid WithMIS ratings (scale 0-4) (Hazardous Materials Identification System) HMIS ratings (scale 0-4) Health induce effects) = 1 Health (acute effects) = 1 Phonobility = 3 Particle Physical Hazards Results of PBT and vPvB assessment PBT: PBT: Not applicable. VPVB: Not applicable. VPVB: Not applicable. Substances CAss Colobult/Information on ingredients Chemical characterization: Substances CASS Bescription: 309:32:58 (Colobult/I methy) ketone Identification number(s): EC EC Flammability = 3 Results of PBT and vPvB assessment PBT: Not applicable. Substances CASB Description: Substances CASB Desc	Signal word Warning Hazard statements
WHIS classification B2 - Flammable liquid Image: Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification system Health (acute effects) = 1 Flammability = 3 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 CASH Description: 3019-25-8 Cyclobuly (methyl ketone Identification number(s): EC number: 221-163-6	H226 Flammable liquid and vapour. Processitionaris
WHIS classification B2 - Flammable liquid Image: Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification system Health (acute effects) = 1 Flammability = 3 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 CASH Description: 3019-25-8 Cyclobuly (methyl ketone Identification number(s): EC number: 221-163-6	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection.
WHIS classification B2 - Flammable liquid Image: Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification system Health (acute effects) = 1 Flammability = 3 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 CASH Description: 3019-25-8 Cyclobuly (methyl ketone Identification number(s): EC number: 221-163-6	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. P403+P235 Store in a well-ventilated place. Keen cool
B2 - Flammable liquid	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Constrained of the state of the s	B2 - Flammable liquid
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Constrained of the state of the s	
HeALTH I Health (acute effects) = 1 Flammability = 3 Flammability = 3 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 3019-25-8 Cyclobutyl methyl ketone Identification number(s): EC number: 221-163-6	Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
Reactivity: Physical Håzard = 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: 3019-25-8 Cyclobutyl methyl ketone Identification number(s): EC number: 221-163-6	HEALTH I Health (acute effects) = 1
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 3019-25-8 Cyclobutyl methyl ketone Identification number(s): EC number: 221-163-6	REACTIVITY Physical Hazard = 1
vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 3019-25-8 Cyclobuty/ methyl ketone Identification number(s): EC number: 221-163-6	Results of PBT and vPvB assessment
Chemical characterization: Substances CAS# Description: 3019-25-8 Cyclobutyl methyl ketone Identification number(s): EC number: 221-163-6	vPvB: Not applicable.
CAS# Description: 3019-25-8 Cyclobutyl methyl ketone Identification number(s): EC number: 221-163-6	
	CAS# Description:
	JU 19-25-8 Cyclobuty/ methyl ketone Identification number(s): FC number: 221-163-6
Description of 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	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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
After śwallowing Seek medical tréatment. (Contd. on page 2)	

Product name: Cyclobutyl methyl ke	etone	
		(Contd. of page 1)
Information for doctor Most important symptoms and effect Indication of any immediate medical	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	
	attendor and special deathent needed to talater relevant anomation available.	
5 Fire-fighting measures Extinguishing media		
Special hazards arising from the sub	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture	
If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide Advice for firefighters	Nowing can be released:	
Protective equipment: Wear self-contained respirator.		
Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equipment. Keep unpro	ipment and emergency procedures stected persons away.	
Ensure adequate ventilation Keep away from ignition sources	low material to be released to the environment without proper governmental permits.	
Methods and material for containment Keep away from ignition sources.	nt and cleaning up:	
Absorb with liquid-binding material (san Prevention of secondary hazards: Ke Reference to other sections	d, diatomite, acid binders, universal binders, sawdust). ep away from ignition sources.	
See Section 7 for information on safe ha	andling	
See Section 8 for information on person See Section 13 for disposal information.	al protection equipment.	
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	е.	
Protect against electrostatic charges. Fumes can combine with air to form an		
Keep ignition sources away. Conditions for safe storage, including	g any incompatibilities	
Storage Requirements to be met by storeroom	ns and receptacles: No special requirements.	
Information about storage in one con Further information about storage co	nmon storage facility: Store away from oxidizing agents.	
Keep container tightly sealed. Store in cool, dry conditions in well seal	led containers.	
Specific end use(s) No further relevant		
8 Exposure controls/personal prot Additional information about design		
Properly operating chemical fume hood Control parameters	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Components with limit values that real Additional information: No data	quire monitoring at the workplace: Not required.	
Exposure controls		
Personal protective equipment General protective and hygienic mea The usual precautionary measures for h	sures pandling chemicals should be followed	
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo	and feed. shina immediately	
Wash hands before breaks and at the e	nd of work.	
Protection of hands:	working environment. spirator when high concentrations are present.	
Impervious gloves Check protective gloves prior to each us	se for their proper condition.	
The selection of suitable gloves not only Penetration time of glove material (in	se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
Eye protection: Safety glasses Body protection: Protective work cloth	ing.	
9 Physical and chemical properties	5	
Information on basic physical and ch General Information	emical properties	
Appearance: Form:	Liquid	
Color: Odor: Odor:	Colorless Not determined	
Odor threshold: pH-value:	Not determined. Not determined.	
, Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range: Sublimation temperature / start:	134-135 °C (273-275 °F) Not determined	
Flash point:	28 °C (82 °F)	
L		(Contd. on page 3) USA

Product name: Cyclobutyl methyl ketone

Product name: Cyclobutyl methyl ke	one	
		(Contd. of page 2)
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density at 20 °C (68 °F):	Not determined 0.9 g/cm³ (7.511 lbs/gal)	
Relative density ` Vapor density	Not determined. Not determined.	
Evaporation rate Solubility in / Miscibility with	Not determined.	
Water:	Fully miscible	
Partition coefficient (n-octanol/water): 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 recomn Thermal decomposition / conditions to	be avoided: Decomposition will not occur it used and stored according to specifications.	
Possibility of hazardous reactions No Conditions to avoid No further relevant	dangerous reactions known	
Incompatible materials: Oxidizing agen Hazardous decomposition products: ('S	
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for cl Skin irritation or corrosion: May cause	assification: No data irritation	
Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kno	rritation	
Germ cell mutagenicity: No effects kno	vn.	
Reproductive toxicity: No effects know	n carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity -	repeated exposure: No effects known.	
Specific target organ system toxicity - Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effect Additional toxicological information: 7	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	rmation available. er relevant information available.	
Bioaccumulative potential No further re Mobility in soil No further relevant inforr	levant information available.	
Additional ecological information:	alion available.	
General notes: Do not allow material to be released to the	e environment without proper governmental permits. antities to reach ground water, water course or sewage system.	
Do not allow undiluted product or large q Avoid transfer into the environment.	iantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further releva.	t information available	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local o	national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be ma	de according to official regulations	
Recommended cleansing agent: Wate	, if necessary with cleansing agents.	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN1224	
UN proper shipping name		
DOT IMDG, IATA	Ketones, liquid, n.o.s. (Cyclobutyl methyl ketone) KETONES, LIQUID, N.O.S. (Cyclobutyl methyl ketone)	
Transport hazard class(es)		
DOT		
Class Label	3 Flammable liquids.	
Class	3 (F1) Flammable liquids	
		(Contd. on page 4)
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Label	(Contd. of page 3
ĨMĎĞ, IATA	
Class Label	3 Flammable liquids. 3
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
EMS Number: Transport in bulk according to Annex II of MARPOL73/	F-E,S-Ď /78 and the IBC Code Not applicable
Transport/Additional information:	
DOT Marine Ballytent (DOT):	٨/-
Marine Pollutant (DOT): UN "Model Regulation":	No UN1224, Ketones, liquid, n.o.s. (Cyclobutyl methyl ketone), 3, III
National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be u product must not be used for commercial purposes or in fo SARA Section 313 (specific toxic chemical listings) Su California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity Substance is not listed Prop 65 - Developmental toxicity, female Substance is no Information about limitation of use: For use only by tech Other regulations, limitations and prohibitive regulatio Substance of Very High Concern (SVHC) according to	ing/eye protection/face protection. equipment. y all contaminated clothing. Rinse skin with water/shower. y all contaminated clothing. Rinse skin with water/shower. Water shows and show all field individual as defined by TSCA. This y all contaminated by the supervision of a technically qualified individual as defined by TSCA. This y batance is not listed. I histed. histed. histed.
	prisation for use) Substance is not listed.
Substance is not listed.	sment has not been carried out.
Substance is not listed. Annex XIV of the REACH Regulations (requiring Autho Chemical safety assessment: A Chemical Safety Assess Other information Employers should use this information only as a suppleme information to ensure proper use and protect the health an conformance with this Material Safety Data Sheet, or in co. Department issuing SDS: Global Marketing Department	ent to other information gathered by them, and should make independent judgement of suitability of this ad safety of employees. This information is furnished without warranty, and any use of the product not ombination with any other product or process, is the responsibility of the user.
Substance is not listed. Annex XIV of the REACH Regulations (requiring Autho Chemical safety assessment: A Chemical Safety Assess Other information Employers should use this information only as a suppleme information to ensure proper use and protect the health an conformance with this Material Safety Data Sheet, or in co. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -	ent to other information gathered by them, and should make independent judgement of suitability of this ad safety of employees. This information is furnished without warranty, and any use of the product not ombination with any other product or process, is the responsibility of the user.
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Substance is not listed. Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess Other information Employers should use this information only as a suppleme information to ensure proper use and protect the health an conformance with this Material Safety Data Sheet, or in co. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015/-	ent to other information gathered by them, and should make independent judgement of suitability of this ad safety of employees. This information is furnished without warranty, and any use of the product not ombination with any other product or process, is the responsibility of the user.