

1 Identification Product identifier Product name: 3-Methylcyclopentane-1,2-dione Stock number: A10255 CAS Number: 765-70-8 EC number: 212-154-8 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. Inerrito Fisher Scheman C. 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) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known. I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 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: 765-70-8 3-Methylcyclopentane-1,2-dione Identification number(s): EC number: 212-154-8 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. 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 dióxide 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: Pick up mechanically. Prevention of secondary hazards: No special measures required.

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Product name: 3-Methylcyclopentane	e-1,2-dione		
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Reference to other sections See Section 7 for information on safe handling			
See Section 8 for information on persona			
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 c	aantainara		
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.			
Specific end use(s) No further relevant	information available.		
8 Exposure controls/personal prote			
Additional information about design of	f 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 req	uire monitoring at the workplace: Not required.		
Additional information: No data	une montoring at the workplace. Not required.		
Exposure controls			
Personal protective equipment			
General protective and hygienic measures for ha	ures andling chemicals should be followed.		
Keep awav from foodstuffs, beverages ar	nd feed.		
Remove all soiled and contaminated cloti Wash hands before breaks and at the en	hing immediately.		
Maintain an ergonomically appropriate we	vorking environment.		
Breathing equipment: Use suitable resp	pirator when high concentrations are present.		
Protection of hands: Impervious gloves			
Check protective gloves prior to each use	e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.		
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			
Body protection: Protective work clothin	ng.		
0 Physical and chemical properties			
9 Physical and chemical properties			
Information on basic physical and che General Information	imical properties		
Appearance:	-		
Form: Color:	Crystalline powder Off-white		
	Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range: Boiling point/Boiling range:	105-107 °C (221-225 °F) Not determined		
	Not determined		
Flash point:	Not applicable		
	Not determined. Not determined		
	Not determined Not determined		
	Not determined.		
	Product does not present an explosion hazard.		
Explosion limits: Lower:	Not determined		
Upper:	Not determined		
Vapor pressure:	Not applicable.		
	Not determined Not determined		
Vapor density	Not applicable.		
	Not applicable.		
Solubility in / Miscibility with Water:	Not determined		
Partition coefficient (n-octanol/water):			
Viscosity:	Natanaliashla		
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
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10 Stability and reactivity			
Poactivity No information known			

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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents

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Product name: 3-Methylcyclopentane-1,2-dione				
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Hazardous decomposition products: Carbon monoxide and carbon dioxide				
 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data 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 effects known. Carcinogenicity: 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. Aspiration hazard: No effects known. Aspiration toxicity: No effects known. Aspiration toxicity: No effects known. Aspiration toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute 	n.			
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. Do not allow material to be released to the environment without proper governmental permits. 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. Other adverse effects No further relevant 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 Not a hazardous material for transportation. UN-Number				
DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA	None			
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None			
Packing group DOT, IMDG, IATA	None			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod				
Transport/Additional information: DOT	Not dangerous according to the above specifications.			
Marine Pollutant (DOT):	No			
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements. Not applicable Hazard pictograms. Not applicable Hazard pictograms. Not applicable National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). 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, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information 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 REACH Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the 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 c	arried out.	USA		

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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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in con Department issuing SDS: Global Marketing Department Date of preparation / last revision 1/23/2015 / -Abbreviations and acronyms: IMD6: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association 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 concentration, 50 percent LD50: Lethal dose, 60 percent VPWs very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA