



Reviewed on 10/07/2010
1 Identification
Product identifier
Product name: 2-Methyl-1,3-dithiane
Stock number: L00209 CAS Number:
6007-26-7 EC number:
227-859-6 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
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)
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 Not applicable
Signal word Warning Hazard statements
H227 Combustible liquid.
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. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
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
B3 - Combustible liquid
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH 1 Health (acute effects) = 1
File B 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:
6007-26-7 2-Methyl-1,3-dithiane Identification number(s): EC number: 227-859-6
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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

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

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Sulfur oxides (SOx) 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). 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: Not required. 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. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Protection of hands: Impervious gloves Check protection of values 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties

Information on basic physical and chemical properties General Information			
Appearance: Form: Color: Odor: Odor threshold:	Liquid Colorless Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 78-80 °C (172-176 °F) (9 mmHg) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	82 °C (180 °F) Not determined Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Product does not present an explosion hazard. Not determined Not determined 1.212 g/cm ³ (10.114 lbs/gal) Not determined. Not determined. Not determined. Not determined.		
Water:	Not miscible or difficult to mix		

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Product name: 2-Methyl-1,3-dithian	ne	
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Partition coefficient (n-octanol/water	er): Not determined.	
Viscosity: dynamic: kinematic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	to to a second	
Thermal decomposition / conditions	mmended storage conditions. s to be avoided: Decomposition will not occur if used and stored according to specifications. No dangerous reactions known	
Possibility of hazardous reactions in Conditions to avoid No further releva	Vo dangerous reactions known	
Conditions to avoid No further releval Incompatible materials: Oxidizing age Hazardous decomposition products. Carbon monoxide and carbon dioxide	jents	
Carbon monoxide and carbon dioxide		
Sulfur oxides (SOx)		
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.	;	
LD/LC50 values that are relevant for	or classification: No data	
Skin irritation or corrosion: May caus Eye irritation or corrosion: May caus	ise irritation	
Eye irritation or corrosion: May caus Sensitization: No sensitizing effects ki Germ cell mutagenicity: No effects kr	nown.	
Carcinogenicity: No classification data	ata on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects kno Specific target organ system toxicity	own. t v - repeated exposure: No effects known.	
Specific target organ system toxicity	ty - single exposure: No effects known.	
Subacute to chronic toxicity: No effe	fects known.	
	n : 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 ir	information available	
Persistence and degradability No further Bioaccumulative potential No further	irther relevant information available.	
Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information:	r relevant information available. formation available.	
Additional ecological information: General notes:		
	o the environment without proper governmental permits.	
Results of PBT and vPvB assessme	ent	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further relev	vant information available.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state local	al or national regulations to ensure proper disposal.	
Uncleaned packagings		
Recommendation: Disposal must be r	made according to official regulations.	
14 Transport information Not a hazardous material for transporta	totion	
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		
DOT, IMDG, IATA Environmental hazards:	None Not applicable.	
Environmental hazards: Special precautions for user	Not applicable. Not applicable.	
	ex II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):		
Marine Pollutant (DOT):	No	
15 Regulatory information		
	egulations/legislation specific for the substance or mixture classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
GHS label elements The product is cla Hazard pictograms Not applicable	assified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Signal word Warning		
Hazard statements H227 Combustible liquid.		
Precautionary statements P210 Keep away from heat/spar	arks/open flames/hot surfaces. No smoking.	
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P280 Wear protective gloves/protective clothing/eye protection/face protection. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65

California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, 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 Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. 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 carried out.

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 combination 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 accoryms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DCR: Dengerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association ITAT-DCR: 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 Identification System (Canada) LC50: Lethal concentration, 50 percent USD: Lethal concentration, 50 percent USD: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Cathal concentration, 50 percent LD50: Lethal concentration, 50 perc

USA