

Safety Data Sheet per OSHA HazCom 2012

	ed on 02/28/2011
1 Identification	
Product identifier	
Product name: <u>2-[Bis(methylthio)methylene]malononitrile</u>	
Stock number: H53503 CAS Number:	
5147-80-8 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.	
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660_	
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) 928-0	789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H331 Toxic if inhaled.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Acute Tox. 4 H312 Harmful in contact with skin. 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	
GHS06	
Signal word Danger Hazard statements	
H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled.	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation. 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 Store locked up. P501 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	
(*)(<u>T</u>)	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 2 FIRE Flammability = 1	
Reactivity 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: 5147-80-8 2-[Bis(methylthio)methylene]malononitrile	
	(Contd. on page 2

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Product name: 2-[Bis(methylthio)methylene]malononitrile

	(Contd. of page 1)
4 First-aid measures	· · · · · · · · · · · · · · · · · · ·
Description of first aid measures After inhalation	1
Supply fresh air. If required, provide artificial respiration. Keep patient warm.	I
Seek immediate medical advice. After skin contact Immediately week with weter and econ and rings therewely.	I
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	1
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	1
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	I
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.	1
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	
Nitrogen oxides (NOx)	
Sulfur Oxides (SOX)	
Hydrogen cyanide (HCN) Advice for firefighters Protociling continuement	
Protective equipment: Wear self-contained respirator. 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 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. Prevention of secondary hazards: No special measures required.	
Reference to other sections See Section 7 for information on safe handling	
See Section 13 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: 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	
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.	
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. The destance of aviable cloves act ask descade on the material, but also an available. Quality will your from manufactures to manufactures	
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	
General Information Appearance:	
Form: Solid	(Contd. on page 3
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Product name: 2-[Bis(methylthio)methylene]malononitrile

		(Contd. of page 2)
Color:	Orange	(Conta: of page 2)
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous)	81-82 °C (178-180 °F) Not determined Not determined Not determined.	
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper: Vapor pressure: Density:	Not determined Not determined Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water) Viscosity:	Not determined : Not determined.	
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	t information available.	
11 Toxicological information Information on toxicological effects Acute toxicity:		

Harmful in contact with skin. Harmful if swallowed. Toxic if inhaled. Harmul II swallowed. Toxic if inhaled. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Garcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: May cause respiratory irritation. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicit 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. Additional ecological information: General notes: General notes: 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.

USA (Contd. on page 4)

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(Contd. of page 3)

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Transport information	
UN-Number	1010.000
DOT, IMDG, IATA	UN3439
UN proper shipping name DOT IMDG, IATA	Nitriles, solid, toxic, n.o.s. (2-[Bis(methylthio)methylene]malononitrile) NITRILES, SOLID, TOXIC, N.O.S. (2-[Bis(methylthio)methylene]malononitrile)
Transport hazard class(es)	
DOT	
Class	6.1 Toxic substances.
Label	6.1
Class Label	6.1 (T2) Toxic substances 6.1
IMDG, IATA	0.1
×	
Class	6.1 Toxic substances.
Label	6.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL73/78 and th	6
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3439, Nitriles, solid, toxic, n.o.s. (2-[Bis(methylthio)methylene]malononitrile), 6.1, III
Safety, health and environmental regulations/legislation specifi GHS label elements The product is classified and labeled in accord Hazard pictograms GHS06 Signal word Danger	ic for the substance or mixture dance with 29 CFR 1910 (OSHA HCS)
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USA

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- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association (ATA: International Air Transport Association 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 USD: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)