



1 Identification

#### Product identifier Product name: 2,6-Dimercaptopurine

Stock number: H56373 **CAS Number:** 5437-25-2 EC number: 226-608-8 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: Manufacturer/Supplier. Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 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 as hazardous according to 29 CFR 1910 (OSHA 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) = 1Flammability = 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: 5437-25-2 2,6-Dimercaptopurine Identification number(s): EC number: 226-608-8

#### 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 dioxide Sulfur oxides (SOx) Nitrogen oxides (NOx) 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 product to reach sewage system or any water course.

Product name	: 2,6-Dimei	rcaptopurine
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Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required. 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.

See Section 13 for disposal information.	•		
7 Handling and starses			
7 Handling and storage			
Handling			
Precautions for safe handling			
Keep container tightly sealed. Store in cool, dry place in tightly closed containers.			
Information about protection against explosions and fires: No information known.			
Conditions for safe storage, including any incompatibilities			
Storage Requirements to be met by storeroor	ms and receptacles: No special requirements.		
Information about storage in one con	nmon storage facility: Store away from oxidizing agents.		
Further information about storage co	inditions:		
Keep container tightly sealed.	Keep container tightly sealed		
Store in cool, dry conditions in well seal	Store in cool. dry conditions in well sealed containers.		
Specific end use(s) No further relevant	t information available.		
8 Experies controls/personal prot	action		
8 Exposure controls/personal prot			
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 re	quire monitoring at the workplace:		
The product does not contain any releva	ant quantities of materials with critical values that have to be monitored at the workplace.		
Additional information: No data			
Exposure controls			
Personal protective equipment			
General protective and hygienic mea	sures		
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.			
Remove all soiled and contaminated clo	othing immediately.		
Wash hands before breaks and at the e	end of work.		
Maintain an ergonomically appropriate v	working environment. spirator when high concentrations are present.		
Breathing equipment: Use suitable res	spirator when high concentrations are present.		
Recommended filter device for short	term use: PE(EN 142) contridece on a backup to appring controls. Bick approximate should be performed to determine if air		
Dise a respirator with type N95 (USA) of	r PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- nly use equipment tested and approved under appropriate government standards.		
Protection of hands:	ny use equipment testeu and approved under appropriate government standards.		
Impervious aloves			
Check protective gloves prior to each us	se for their proper condition.		
I he selection of suitable gloves not only	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.		
Eye protection: Safety glasses			
Body protection: Protective work cloth	ing.		
9 Physical and chemical properties	c .		
Information on basic physical and ch General Information			
Appearance:			
Form:	Powder		
Odor:	Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range	Not determined		
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined		
Sublimation temperature / start:	Not determined		
Flammability (solid, gaseous)	Not determined.		
Ignition temperature:	Not determined		
Decomposition temperature:	Not determined Not determined.		
Auto igniting:			
Danger of explosion: Explosion limits:	Not determined.		
Lower:	Not dotorminod		
Upper:	Not determined Not determined		
Vanor pressure:	Not applicable.		
Density:	Not determined		
Relative density	Not determined.		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Not determined		
Partition coefficient (n-octanol/water)			
Viscosity:			
dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		

10 Stability and reactivity

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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available.

Product name: 2,6-Dimercaptopurine			
		(Contd. of page 2)	
Incompatible materials: Oxidizing agents Hazardous decomposition products:		, ,	
Carbon monoxide and carbon dioxide Sulfur oxides (SOx)			
Nitrogen oxides			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTE LD/LC50 values that are relevant for classification: No data	CS) contains acute toxicity data for this substance.		
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 classification data on carcinogenic properties of this m	aterial is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects kn	own.		
Specific target organ system toxicity - single exposure: No effects know Aspiration hazard: No effects known.	n.		
Subacute to chronic toxicity: No effects known.	ite and chronic toxicity of this substance is not fully known		
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Carcinogenic categories			
OSHA-Ca (Occupational Safety & Health Administration) Substance is n	ot listed.		
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.	Persistence and degradability No further relevant information available.		
Mobility in soil No further relevant information available. Additional ecological information:			
General notes:			
Do not allow undiluted product or large quantities to reach ground water, wa Avoid transfer into the environment.	er course or sewage system.		
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 pro	per disposal.		
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
14 Transport information			
14 Transport information UN-Number DOT, ADN, IMDG, IATA	Not applicable		
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UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA	Not applicable		
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Information about limitation of use: For use only by technically qualified individuals.

# Product name: 2.6-Dimercaptopurine

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Product name: 2,0-Dimercaptopurme
(Contd. of page 3) 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. 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.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/04/2016 / - Abbreviations and acronyms: ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation 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 USD: Lethal does, 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) IAPP: National Agency for Research on Cancer EPA: Environmental Protection Agency (USA)