



1 Identification	
Product identifier	
Product name: 2-Mercapto-4-(trifluoromethyl)pyrimidine	
Stock number: H60501 CAS Number:	
136547-17-6 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 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)	928-0789.
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 H301 Toxic if swallowed.	
Acute Tox. 3 H311 Toxic in contact with skin.	
Acute Tox. 3 H331 Toxic if inhaled. 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 Used u 1944 Taria if anglianged in contact with ghin prificiple led	
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	
P361 I ake off immediately all contaminated clothing.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2 IRRE 1 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: 136547-17-6 2-Mercapto-4-(trifluoromethyl)pyrimidine	
4 First-aid measures	
Description of first aid measures General information	
Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed.	
In case of irregulār breathing or respiratory arrest provide artificial respiration. 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.	
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(Contd. of page 1) After swallowing Do not induce vomiting; immediately call for medical help. 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) Hydrogen fluoride (HF, Nitrogen oxides (NOx) Hydrogen sulfide 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. 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 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. Open and handle container with care. 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: The product does not contain any relevant 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 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. Store protective clothing separately Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use self-contained respiratory protective device in emergency situations. **Protection of hands:** Impervious gloves Check protective gloves prior to each use for their proper condition. The self-time 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 Odor: Odor threshold: Not determined Not determined pH-value: Not applicable. Change in condition 164-166 °C (327-331 °F) Melting point/Melting range: (Contd. on page 3)

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Product name: 2-Mercapto-4-(trifluor	romethyl)pyrimidine	
	(Contd. of page 2)	
Roiling point/Roiling range:	Not determined	
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous)	Not determined	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density:	Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water:	Not determined	
Partition coefficient (n-octanol/water): Viscosity:	Not determined.	
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 recomm Thermal decomposition / conditions f	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of nazardous reactions Rea	acts with strong oxidizing agents	
Conditions to avoid No further relevant Incompatible materials: Oxidizing agen	information available.	
Incompatible materials: Oxidizing agen Hazardous decomposition products:	ts	
Carbon monoxide and carbon dioxide		
Sulfur oxides (SOx)		
Hydrogen fluoride		
Hydrogen fluoride Nitrogen oxides Hydrogen sulfide		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity:		
Toxic in contact with skin. Toxic if inhaled.		
Toxic if swallowed.		
Danger through skin absorption.		
LD/LC50 values that are relevant for ca Skin irritation or corrosion: May cause	lassification: No data	
Eve irritation or corrosion: Mav cause	irritation	
Sensitization: No sensitizing effects kno	awa	
Germ cell mutagenicity: No effects kno	wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No classification data (on carcinogenic properties of this material is available from the EFA, IANO, MFF, OOHA of AOOHA.	
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. Subacute to chronic toxicity: No effect	te known	
Additional toxicological information:	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	prmation available.	
Bioaccumulative potential No further re	elevant information available.	
Mobility in soil No further relevant inforr	nation available.	
Additional ecological information: General notes:		
Do not allow undiluted product or large g	uantities 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 releva	nt information available.	
12 Disserve identifiant		
13 Disposal considerations		
Waste treatment methods Recommendation Consult state local o	the star with these to answer any and an and	
Uncleaned packagings:	r national regulations to ensure proper disposal.	
Recommendation: Disposal must be ma	ade according to official regulations.	
14 Transport information		
UN-Number		
DOT, IMDG, IATA	UN2811	
UN proper shipping name DOT	Terria calida, arrania, n.a. a. (2 Marcanta 4 (trifluoromathul)nurimidina)	
DOT IMDG, IATA	Toxic solids, organic, n.o.s. (2-Mercapto-4-(trifluoromethyl)pyrimidine) TOXIC SOLID, ORGANIC, N.O.S. (2-Mercapto-4-(trifluoromethyl)pyrimidine)	
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Safety Data Sheet per OSHA HazCom 2012	Page 4/4 Printing date 11/24/2015 Reviewed on 07/05/2013	
Product name: 2-Mercapto-4-(trifluoromethyl)pyrimidine		
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Transport hazard class(es) DOT		
Class Label Class Label IMDG, IATA	6.1 Toxic substances. 6.1 6.1 (T2) Toxic substances 6.1	
Class Label	6.1 Toxic substances. 6.1	
Packing group DOT, IMDG, IATA		
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (2-Mercapto-4-(trifluoromethyl)pyrimidine), 6.1, III	
Safety, health and environmental regulations/legislation specific for the substance or mixture 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 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. Precautionary statements P261 Avoid breathing dust/tume/gas/mist/vapours/spray. P280 Wear protective gloves/profective cloves/profective		
16 Other information Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employees conformance with this Material Safety Data Sheet, or in combination with any of Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: 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) LCS0: Lethal concentration, 50 percent UDS: Userpatimental Information (USA) WHMIS: 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)		