Safety Data Sheet



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1 Identification	
Product identifier Product name: Methyl 4-chloropyridine-2-carboxylate	
Stock number: H60532 CAS Number: 24484-93-3 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 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.	
Label 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 I Health (acute effects) = 1 PIRE I Flammability = 1 PREATIVITI 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: 24484-93-3 Methyl 4-chloropyridine-2-carboxylate	
 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 Nitrogen oxides (NOX) Hydrogen chloride (HCl) 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: Pick up mechanically. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling (Contd. on page 1000)	age 2)
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See Section 8 for information on persona See Section 13 for disposal information.	al protection equipment. (Contd. of page		
7 Handling and storage			
Handling Precautions for safe handling Keep co	ontainer tightly sealed.		
Information about protection against e Conditions for safe storage, including	explosions and fires: No information known.		
Storage Requirements to be met by storeroom	ns and receptacles: Store in freezer (-20 °C).		
Information about storage in one com Protect from heat.	imon storage facility:		
Store away from oxidizing agents. Further information about storage cor Specific end use(s) No further relevant	nditions: Keep container tightly sealed. information available.		
8 Exposure controls/personal prote			
	of technical systems: 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 The product does not contain any releva Additional information: No data	quire monitoring at the workplace: ant quantities of materials with critical values that have to be monitored at the workplace.		
Exposure controls Personal protective equipment			
General protective and hygienic meas The usual precautionary measures for ha	sures andlina chemicals should be followed.		
Keep away from foodsfuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.			
Maintain an ergonomically appropriate w	vorking environment.		
Recommended filter device for short t	spirator when high concentrations are present. term use: - PF (FN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air.		
Use a respirator with type N95 (USA) or purifying respirators are appropriate. On Protection of hands:	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.		
Impervious gloves Check protective gloves prior to each us	se 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.		
Eye protection: Safety glasses Body protection: Protective work clothin	ng.		
9 Physical and chemical properties			
Information on basic physical and che General Information Appearance:			
Form: Odor:	Solid Not determined		
Odor threshold: pH-value:	Not determined. Not applicable.		
Change in condition			
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined		
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
Auto igniting: Danger of explosion:	Not determined. Not determined.		
Explosion limits: Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density:	Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water: Partition coefficient (n-octanol/water):	Not determined : Not determined.		
Viscosity: dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
0 Stability and reactivity			
Reactivity No information known.	mandad ataraza aanditiana		
Thermal decomposition / conditions t	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions Rea Conditions to avoid No further relevant	acts with strong oxidizing agents t information available.		

Possibility of hazardous reactions Reacts with strong oxidizi Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides

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Hydrogen chloride (HCl)	(Contd. of page 2)
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 Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available i Reproductive toxicity: 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. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic tox Carcinogenic categories	
OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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. 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, water course or sewage 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.	je system.
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	
UN-Number DOT, ADN, IMDG, IATA Not applicable	<i>,</i>
UN proper shipping name DOT, ADN, IMDG, IATA Not applicable	e
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class Not applicable	2
Packing group	
DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable	
Special precautions for user Not applicable	
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": -	
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mix GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Contro to research and development only. This product must be used by or directly under the supervisis product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian No 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, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations	ol Act Chemical Substance Inventory. Use of this product is restricted

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. (Contd. on page 4)

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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 use Department issuing SDS: Global Marketing Department Date of preparation / last revision 06/02/2016 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation Of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LDS0: Lethal concentration, 50 percent VPUB: 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) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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