

Safety Data Sheet per OSHA HazCom 2012

Reviewed 01/02/23/201	_
1 Identification	יך
Product identifier	
Product name: Methyl 2-chloro-6-methylpyridine-4-carboxylate	
Stock number: H56006 CAS Number:	
3998-90-1 Relevant identified uses of the substance or mixture and uses advised against.	!
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 04825 8000	!
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.	
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2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CEP 1010 (OSHA HCS)	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	!
GHS05 Corrosion	!
Eye Dam. 1 H318 Causes serious eye damage.	.   !
GHS07	
Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.	!
STOT SETS THIST May cause an anergic shifted up. STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
	- 1
Label elements GHS label elements How such a state of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
GHS05 GHS07	
Signal word Danger	
Hard Statements H315 Causes skin irritation.	
H318 Causes skill initiation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction.	
H317 May cause respiratory irritation. H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/sprav	
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 D2B - Toxic material causing other toxic effects	
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Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH     2       FIRE     1   Flammability = 1	
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:	
3998-90-1 Methyl 2-chloro-6-methylpyridine-4-carboxylate	י וַ
4 First-aid measures	٦
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek îmmediate medical advice. (Contd. on page.	2)
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(Contd. of page 1)

### Product name: Methyl 2-chloro-6-methylpyridine-4-carboxylate

After skin contact

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: It this product is involved in a fire, the Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCI) Possibly Hydrogen cyanide (HCN) 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: 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. 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.

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:

Protection of nands: Impervious gloves 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: Tightly sealed goggles Body protection: Protective work clothing.

### 9 Physical and chemical properties

Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	chemical properties Powder White Not determined Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range:	58-62 °C (136-144 °F)
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(Contd. on page 3)

## Product name: Methyl 2-chloro-6-methylpyridine-4-carboxylate

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Product name: Methyl 2-chloro-6-me	thylpyridine-4-carboxylate			
		(Contd. of page 2)		
Boiling point/Boiling range: Sublimation temperature / start:	124-125 °C (255-257 °F) (7mm Hg) Not determined			
Flammability (solid, gaseous)	Not determined.			
Ignition temperature: Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper:	Not determined Not determined			
Vabor pressure:	Not applicable. 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. Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recomn	nended storage conditions. <b>b be avoided:</b> Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions No Conditions to avoid No further relevant	dangerous reactions known			
Incompatible materials: Oxidizing agen	ts			
Hazardous decomposition products: Carbon monoxide and carbon dioxide				
Nitrogen oxides Hydrogen chloride (HCI)				
Possibly Hydrogen cyanide (HCN)				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: No effects known. LD/LC50 values that are relevant for cl	lassification: No data			
Skin irritation or corrosion: Causes ski Eye irritation or corrosion: Causes ser	n irritation. ious eve damage			
Sensitization: May cause an allergic ski	n reaction.			
Germ cell mutagénicity: No effects kno Carcinogenicity: No classification data of	wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity: No effects knowl	1.			
Specific target organ system toxicity -	repeated exposure: No effects known. single exposure: May cause respiratory irritation.			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	s known.			
Additional toxicological information:	o 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	rmation 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 material to be released to the Do not allow undiluted product or large of Do not allow undiluted product or large of Do not allow undiluted product or large of Do not allow material to be released to the Do not allow material to be Do not be Do no	e environment without proper governmental permits. 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 releval	nt information available.			
13 Disposal considerations				
Waste treatment methods				
	r national regulations to ensure proper disposal.			
Recommendation: Disposal must be ma	ade according to official regulations.			
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADN, IMDG, IATA				
DOT, ADN, IMDG, IATA Transport hazard class(es)	Not applicable			
DOT, ADR, ADN, IMDG, IATA	<b>M</b> - 1 <b>P</b>			
Class Packing group	Not applicable			
Packing group DOT, IMDG, IATA	Not applicable	(0		
		(Contd. on page 4) USA –		

Product name: Methyl 2-chloro-6-methylpyridine-4-carbox	<i>cylate</i>
	(Contd. of page 3
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the	BC 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 mixture
GHS label elements The product is classified and labeled in accorda Hazard pictograms	nce with 29 CFR 1910 (OSHA HCS)
GHS05 GHS07	
Signal word Danger	
<b>Hăzard statements</b> H315 Causes skin irritation.	
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P405 Store locked up. P501 Dispose of contents/container in accordance with I	local/regional/national/international regulations.
to research and development only. This product must be used by or d product must not be used for commercial purposes or in formulations SARA Section 313 (specific toxic chemical listings) Substance is i	/ Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted lirectly under the supervision of a technically qualified individual as defined by TSCA. This for commercial purposes. not listed.
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed	d.
Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qua	lified individuals
Other regulations, limitation of user in dide very by technically qua	N Demulations (FO) No. 4007/2000. Cultotanos is not listed
	alified individuals. H Regulations (EC) No. 1907/2006. Substance is not listed. XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation fo Chemical safety assessment: A Chemical Safety Assessment has n	r <b>use)</b> Substance is not listed. not been carried out.
16 Other information Employers should use this information only as a supplement to other information to ensure proper use and protect the health and safety of conformance with this Material Safety Data Sheet, or in combination v	information gathered by them, and should make independent judgement of suitability of this employees. This information is furnished without warranty, and any use of the product not in 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 / -	
RID: Règlement international concernant le transport des marchandises dangereuses par ch	nemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
AUX: Accord europeen sur le transport des marchandises dangereuses par Route (Europea. IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	in Agreement concerning the International Carriage of Dangerous Goods by Road)
ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europea IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association 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) LC50: Lethal concentration, 50 percent	
Viring, wonpare instandus waterials information System (Canada) LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent VPUB: van Persistent and van Bioaccumulative	
LDSD: Letral dose, so 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)	
IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
	USA -