



1 Identification Product identifier Product name: 2-Chloro-6-methoxypyridine Stock number: L05997 CAS Number: 17228-64-7 EC number: 241-264-9 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. Inerrito Fisher Scheman C. 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) ! GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. H227 Combustible liquid. 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 ! GHS07 Signal word Warning Hazard statements H227 Combustible liquid. H217 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P210 

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 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.

 P405
 Store locked up.

 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification B3 - Combustible liquid D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 2 Flammability = 2 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: 17228-64-7 2-Chloro-6-methoxypyridine

17228-64-7 2-Chloro-6-methoxyp Identification number(s): EC number: 241-264-9

(Contd. on page 2)

Product name: 2-Chloro-6-methoxypyridine	
	(Contd. of page 1)
<ul> <li>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.</li></ul>	
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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. 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: Keep ignition sources away. 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 solied 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: 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. 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: Liquid Color: Colorless	
	(Contd. on page 3)

## Product name: 2-Chloro-6-methoxypyridine

		(Contd. of page 2
Odor:	Not determined	Conta. of page 2
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	185-186 °C (365-367 °F)	
Sublimation temperature / start:	Not determined	
Flash point: Flammability (solid, gaseous)	76 °C (169 °F) Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density at 20 °C (68 °F):	Not determined 1.207 g/cm³ (10.072 lbs/gal)	
Relative density	Not determined.	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with Water:		
Partition coefficient (n-octanol/water	Not miscible or difficult to mix r): Not determined.	
Viscosity: dynamic:	Not determined.	
kinematic:	Not determined.	
Other information	No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recon	nmended storage conditions. t <b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications.	
Thermal decomposition / conditions Possibility of hazardous reactions N	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Conditions to avoid No further relevant	nt information available.	
Incompatible materials: Oxidizing age Hazardous decomposition products.		
Nitrogen oxides		
Carbon monoxide and carbon dioxide Hydrogen chloride (HCl)		
, ,		
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for		
Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes s		
Sensitization: No sensitizing effects ki Germ cell mutagenicity: No effects ki	nown.	
Germ cell mutagenicity: No effects ki Carcinogenicity: No classification dat	nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects kno	wn.	
Specific target organ system toxicity Specific target organ system toxicity	<ul> <li>repeated exposure: No effects known.</li> <li>single exposure: May cause respiratory irritation.</li> </ul>	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effe Additional toxicological information	cts known. : To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
2 Ecological information		
Toxicity Aquatic toxicity: No further relevant ir	nformation available.	
Persistence and degradability No fur	ther relevant information available.	
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available. Drmation available.	
Additional ecological information:		
General notes: Do not allow material to be released to	the environment without proper governmental permits.	
Avoid transfer into the environment. Results of PBT and vPvB assessme		
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further relev	vant information available.	
3 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be i	made according to official regulations.	
4 Transport information		
Not a hazardous material for transporta	ation.	
UN-Number	Nono	
DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
		(Contd. on page 4

duct name: 2-Chloro-6-methoxypyridine	
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Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None
Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 ar	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
Regulatory information	
Safety, health and environmental regulations/legislation spo GHS label elements The product is classified and labeled in ac Hazard pictograms	ecific for the substance or mixture cordance with 29 CFR 1910 (OSHA HCS)
$\wedge$	
V	
GHS07	
Signal word Warning	
Hazard statements H227 Combustible liquid.	
H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H335 May cause respiratory irritation. Precautionary statements	
P210 Keep away from heat/sparks/open flames/ho	ot surfaces. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/ P280 Wear protective gloves/protective clothing/ev	'spray. ve protection/face protection
P305+P351+P338 IF IN EYES: Rinse cautiously with water for s	yé protection/face protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.	
P501 Dispose of contents/container in accordance National regulations	with local/regional/national/international regulations.
This product is not listed in the U.S. Environmental Protection A	gency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict
to research and development only. This product must be used b	by or directly under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purposes or in formula SARA Section 313 (specific toxic chemical listings) Substan California Proposition 65	ice is not listed.
California Proposition 65	at lists a
Prop 65 - Chemicals known to cause cancer Substance is no Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity, female Substance is not lis	ted.
Prop 65 - Developmental toxicity, female Substance is not lister Prop 65 - Developmental toxicity, male Substance is not lister Information about limitation of use: For use only by technical Other revulsions limitation of use: Source and architicity revulsions	d. In gualified individuals
Substance of Very High Concern (SVHC) according to the R	REACH Regulations (EC) No. 1907/2006. Substance is not listed. nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
The conditions of restrictions according to Article 67 and A market and use must be observed.	nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
Substance is not listed	
Annex XIV of the REACH Regulations (requiring Authorisati Chemical safety assessment: A Chemical Safety Assessment	i <b>on for use)</b> Substance is not listed. t has not been carried out.
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 safe	other information gathered by them, and should make independent judgement of suitability of thi ety of employees. This information is furnished without warranty, and any use of the product not ation with any other product or process, is the responsibility of the user.
	auon with any other product of process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	
Abbreviations and acronyms:	a new shamin de fay (Deculations Concerning the International Transport of Departments Conde by Deil)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associ	s par chemin de ter (Regulations Concerning the International Transport of Dangerous Goods by Rall) iation" (IATA)
ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICA	40)
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	
IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
WHMIS: Workplace Hazardous Materials Information System (Canada)	
LD50: Lethal dose, 50 percent	
ACGIH: American Conference of Governmental Industrial Hygienists (USA)	
USHA: Occupational Safety and Health Administration (USA)	
INTE National Toxicology Flogram (USA)	
Date of preparation / last revision 11/24/2015 / -         Abbreviations and acronyms:         RID: Réglement international concernant le transport des marchandises dangereuse         IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Assoc:         ICAO: International Civil Aviation Organization         ICAO: The chnical Instructions by the "International Civil Aviation Organization" (ICA         IND: Réglement international Maritime Code for Dangerous Goods         DOT: US Department of Transport Association         IRINECS: 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)         LCS0: Lethal concentration, 50 percent         LD50: Lethal concentration, 50 percent         VPW: 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      <	