



		<i>"</i> 2010
1	1 Identification	
	Product identifier	
	Product name: 2-Chloro-4-methylpyrimidine	
	Stock number: H31903 CAS Number:	
	13036-57-2 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	
	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	2 Hazard(s) identification	
	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
	GHS07	
	Acute Tox. 4 H302 Harmful if swallowed.	
	Skin Irrit. 2 H315 Causes skin irritation.	
	Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.	
	STOT SE 3 H335 May cause respiratory irritation. 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 H302 Harmful if swallowed.	
	H315 Causes skin irritation.	
	H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.	
	H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. <b>Precautionary statements</b>	
	P280 Wear protective gloves / protective clothing. P262 Do not get in eyes, on skin, or on clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	WHMIS classification	
	D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
	Classification system	
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
	HEALTH Image: Present and the state of the stateo	
	REACTIVITY Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment	
	PBT: Not applicable.	
	3 Composition/information on ingredients Chemical characterization: Substances	
	CAS# Description: 13036-57-2 2-Chloro-4-methylpyrimidine	
		=
4	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 immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
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After swellowing SeeL models in the set of t	roduct name: 2-Ghioro-4-methylpyrimdine						
Evinguichting media Suitable exignation program Cultor thores, exignation powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Fight product is moving on a lime, the following can be measaed: Another for finguithers Program Provide Program P	Information for doctor Most important symptoms and effects,	, both acute and delayed No further relevant information available.	(Contd. of page 1)				
Presention of precautions, protective equipment and energency procedures   Wear protections, protective equipment, they matricate the released to the environment without proper governmental permits.   Methods and material for consimmer and chaning up:   Depose of contaminated material serves are downed.   Methods and material for consimmer and chaning up:   Depose of contaminated material serves are downed.   Reference to other sections   See Section 13 for disposal information.   7 Handling and storage   Prevention of the information or goals information.   7 Handling and storage   Prevention of the information or goals information.   7 Handling and storage   Methods and the information about protection against explosions and fires: No information known.   Conditions for sale storage, including any incompatibilities   Storage on out storage in one common storage facility: Stora way from oxidizing agents.   Further information about storage to notaminers.   Storage on out of the storage on adminers.   Storage on out of the storage on adminers.   Storage on out of the storage on adminers.   Storage on out of the storage on a common storage facility: Storage on adminers.   Methods and the storage on adminers.   Storage on the inity way for adminers.   Storage o	Extinguishing media Suitable extinguishing agents Carbon of Special hazards arising from the subsit If this product is involved in a fire, the foll Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCI) Possibly Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator.	tance or mixture					
Handling Precautions for safe handling Keep container tightly seeled. Strong for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles. No special requirements. 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. Information about storage in one common storage facility: Store away from oxidizing agents. Information about design of technical systems: Reporting there relevant information about design of technical systems: Additional information bout design of technical systems: Properly oparating demines: Specific and useq) No future relevant information values. 8 Exposure controls/personal protection Additional information: No data Exposure controls protective equipment General protective and hygion measures The usual protective and hygion measures The usual protective and hygion of work. Additional information: No data Exposure controls Personal protective and hygion ensures General protective and hygion ensures of handing chemicals should be followed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end ow with Additional information: No data Breaktion of shittable glowes not only depends to the meterial build but also on quality. Quality will vary from manufacturer to manufacturer. Protection of shittable glowes not only depends to the meterial but also on quality. Quality will vary from manufacturer to manufacturer. Protection of battable glowes not only depends to the meterial but also on quality. Quality will vary from manufacturer to manufacturer. Protection: Stoled to: Protective equipment: Breakting on basic physical and chemical properties Hommation on basic physical and chemical properties Body protective w	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: 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.						
Additional information about design of technical systems: Properly operating chemical furme 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 information: No data   Renove all protective equipment General protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contarninated 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. Quality will vary from manufacturer to manufacturer. Protection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Protection: Safety glasses Body protection: Protective work clothing.   9 Physical and chemical properties General Information Appearance: Form: Color: Cream Odor: Not determined Color: Meiting point/Meiting range: Sublim point/Meiting range: Sublim point/Meiting range: Sublim point/Meiting range: Sublim point/Meiting range: Not determined	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.						
Information on basic physical and chemical properties   General Information   Appearance:   Form: Solid   Color: Cream   Odor: Not determined   Odor threshold: Not determined.   pH-value: Not applicable.   Change in condition Kot applicable.   Melting point/Melting range: Not determined   Sublimation temperature / start: Not determined	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 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 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						
Information on basic physical and chemical properties   General Information   Appearance:   Form: Solid   Color: Cream   Odor: Not determined   Odor threshold: Not determined.   pH-value: Not applicable.   Change in condition Melting point/Melting range:   Melting point/Melting range: Not determined   Sublimation temperature / start: Not determined							
Odor threshold: Not determined.   pH-value: Not applicable.   Change in condition 45-48 °C (113-118 °F)   Melting point/Beiling range: 45-48 °C (113-118 °F)   Boiling point/Boiling range: Not determined   Sublimation temperature / start: Not determined	Information on basic physical and che General Information Appearance: Form: Color:	emical properties Solid Cream					
Change in condition Melting point/Melting range: 45-48 °C (113-118 °F) Boiling point/Boiling range: Not determined Sublimation temperature / start: Not determined	Odor threshold:	Not determined.					
Melting point/Melting range: 45-48 °C (113-118 °F) Boiling point/Boiling range: Not determined Sublimation temperature / start: Not determined		Not applicable.					
(Conta. on page U	Melting point/Melting range: Boiling point/Boiling range:	Not determined					
			(Contd. on page 3)				

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## Product name: 2-Chloro-4-methylpyrimidine

Product name: 2-Chloro-4-methylpy	rimidine		
		(Contd. of page 2)	
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined. Not determined Not determined Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
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:	Not determined		
Partition coefficient (n-octanol/water): Viscosity:			
dynamic: kinematic:	Not applicable. 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 to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI) Possibly Hydrogen cyanide (HCN)	o be avoided: Decomposition will not occur it used and stored according to specifications. dangerous reactions known information available.		
11 Toxicological information Information on toxicological effects			
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. rious eye irritation. in reaction. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. - <b>repeated exposure:</b> No effects known. - <b>single exposure:</b> May cause respiratory irritation.		
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 material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities 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	int information available.		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be me	or national regulations to ensure proper disposal. ade according to official regulations.		
<b>14 Transport information</b> Not a hazardous material for transportati	ion.		
UN-Number DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA	None		
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None		
Packing group DOT, IMDG, IATA	None		
		(Contd. on page 4)	

Product name: 2-Chloro-4-methylpyrimidine					
	(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					
Transport/Additional information: DOT	Not dangerous according to the above specifications.				
Marine Pollutant (DOT):	No				
15 Regulatory information Safety, health and environmental regulations/legislation spec GHS label elements The product is classified and labeled in acc Hazard pictograms GHS07 Signal word Warning Hazard statements	<b>cific for the substance or mixture</b> cordance with 29 CFR 1910 (OSHA HCS)				
<b>16 Other information</b> Employers should use this information only as a supplement to o information to ensure proper use and protect the health and safe conformance with this Material Safety Data Sheet, or in combinat	ther information gathered by them, and should make independent judgement of suitability of this ty of employees. This information is furnished without warranty, and any use of the product not in tion with any other product or process, is the responsibility of the user.				
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandises dangereuses IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associa ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO IMDE: 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 dose A Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 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) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) tion" (IATA) D) - USA				