

Safety Data Sheet per OSHA HazCom 2012

	viewed on 02/13/201
1 Identification Product identifier	_
Product identifier Product name: 4-Chloro-2-methylquinoline	
Stock number: A15002, L07693 CAS Number:	
4295-06-1 EC number:	
224-300-8 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: techiniaita 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) 9	28-0789.
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. 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 H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements	
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 rir P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	ising.
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)	
(Hazardouš Materials Identification System)	
PRE IFlammability = 1 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:	
4295-06-1 4-Chloro-2-methylquinoline Identification number(s): EC number: 224-300-8	
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.	(Contd. on page

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(Contd. of page 1)

Product name: 4-Chloro-2-methylquinoline

Seek	immediate	medical	advice.

	Seek immediate medical advice.	(Conta: of page 1)		
	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 nowder or water spray. Fight larger fires with water spray or alcohol resistant form			
	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) Possibly Hydrogen cyanide (HCN) Advice for firefighters			
	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:			
	Apsord with liquid-dinding material (sand, diatomite, acid dinders, universal dinders, sawdust).			
	Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections			
	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			
	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.			
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ð	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.			
	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed			
	Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Work bende before brook and of the and of work.			
	Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.			
	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 hands:			
	Impervious gioves 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			
	Eve 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 to yellow			
	Odor: Not determined Odor threshold: Not determined.			
	pH-value: Not determined.			
	Change in condition			
	Melting point/Melting range: ≈25 °C (≈77 °F)	(Cantel are a C)		
		(Contd. on page 3) USA		

Product name: 4-Chloro-2-methylquinoline

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Boiling point/Boiling range:	269-270 °C (516-518 °F)				
Sublimation temperature / start:	Not determined				
Flash point:	> 110 °C (> 230 °F)				
Flammability (solid, gaseous)	Not applicable.				
Ignition temperature:	Not determined				
Decomposition temperature:	Not determined				
Auto igniting:	Not determined.				
Danger of explosion:	Product does not present an explosion hazard.				
Explosion limits:					
Lower:	Not determined				
Upper:	Not determined Not determined				
Vapor pressure: Density at 20 °C (68 °F):	0.881 g/cm ³ (7.352 lbs/gal)				
Relative density	Not determined.				
Vapor density	Not determined.				
Evaporation rate	Not determined.				
Solubility in / Miscibility with					
Water:	Slightly soluble				
Partition coefficient (n-octanol/water)	Not determined.				
Viscosity: dynamic:	Not determined.				
kinematic:	Not determined.				
Other information	No further relevant information available.				
10 Stability and recetivity					
10 Stability and reactivity					
Reactivity No information known.					
Chemical stability Stable under recom	nended storage conditions.				
I nermal decomposition / conditions t	o be avoided: Decomposition will not occur if used and stored according to specifications.				
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available.					
Incompatible materials: Oxidizing agents					
Hazardous decomposition products:					
Carbon monoxide and carbon dioxide					
Nitrogen ovides					

Nitrogen oxides Possibly Hydrogen cyanide (HCN)

11 Toxicological information

Information on toxicological effects Acute toxicity: No effects known. Even intration or corrosion: Causes skin initiation. Sensitization: No suses skin initiation. Gerim cell mutagenicity: No effects known. Carcingenicity: No effects known. Specific target organ system toxicity - inpeted exposure: No effects known. Specific target organ system toxicity - inpeted exposure: No effects known. Specific target organ system toxicity - single exposure: Mo effects known. Appendictive toxicity: No effects known. Specific target organ system toxicity - inpeted exposure: Mo effects known. Appendictive toxicity: No effects 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 information available. Fersistence and degradability No further relevant information available. Bioaccumulative potential 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 material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without proper governmental permits. 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. PET: Not applicable. Very B: Not applicable.

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

 UN proper shipping name

 DOT, ADN, IMDG, IATA

 Not applicable

 Transport hazard class(es)

 DOT, ADR, ADN, IMDG, IATA

 Not applicable

 Packing group

 DOT, IMDG, IATA

 Not applicable

 (Contd. on page 4)

Safety Data Sheet per OSHA HazCom 2012

Product name: 4-Chloro-2-methylquinoline (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 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 mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms 1 GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements Preclationary statements 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. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P357 P304+P340 P405 P501 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used 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 formulations for commercial purposes. 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, 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 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. market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. 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 user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAC: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IDCG: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IDCG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances (CAS: Chemical Abstracts Service (division of the American Chemical Substances ICAS: Chemical Abstracts Service (Givision of the American Chemical Substances LCSO: Lethal concentration, 50 percent VPWB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) IMTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)