

Safety Data Sheet per OSHA HazCom 2012

Rel	viewed on 03/11/2013
1 Identification	
Product identifier	
Product name: <u>4-Chloro-6-methylquinoline</u>	
Stock number: H59890 CAS Number:	
18436-71-0 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> 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) 92	28-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
$\diamond$	
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	
$\Diamond$	
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/eve protection/face protection.	
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 rin P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	sing.
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 I Health (acute effects) = 1	
FIRE I Flammàbility = 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:	
18436-71-0 4-Chloro-6-methylquinoline	
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.	(Contra or serve of
	(Contd. on page 2) USA

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## (Contd. of page 1) 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 (HCI) 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 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 aves and exin. 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 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:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Odor: Odor threshold: Not determined Not determined Not applicable. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined Auto igniting: Not determined (Contd. on page 3)

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		(Contd. of page 2)
Danger of explosion:	Not determined.	(00//01/01/2-02/2)
Danger of explosion: Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water) Viscosity:	j: Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recom	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re	eacts with strong oxidizing agents	
Conditions to avoid No further relevan	nt information available.	
Incompatible materials: Oxidizing age Hazardous decomposition products:	nts	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitrogen oxides Hydrogen chloride (HCl)		
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for c	classification: No data	
Skin irritation or corrosion: Causes sl	skin irritation.	
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kno	nown.	
Germ cell mutagenicity: No effects kno	nown.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	1
Specific target organ system toxicity	wn. • <b>repeated exposure:</b> No effects known. • <b>- single exposure:</b> May cause respiratory irritation.	
Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	cts 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 inf	formation available.	1
Persistence and degradability No further potential	ther relevant information available. relevant information available	
Mobility in soil No further relevant infor	revant mornauon available.	
Additional ecological information:		
General notes: Do not allow material to be released to t	the environment without proper governmental permits.	
Do not allow undiluted product or large of	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmen	nf	
<b>PBT:</b> Not applicable.		
vPvB: Not applicable. Other adverse effects No further releva	ant information available.	1
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13 Disposal considerations		
Waste treatment methods	the state of the second management of the second	1
Uncleaned packagings:	or national regulations to ensure proper disposal.	1
<b>Recommendation:</b> Disposal must be m	nade according to official regulations.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not opplicable	
Transport hazard class(es)	Not applicable	
•		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	x II of MARPOL73/78 and the IBC Code Not applicable.	
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oduct name: 4-Chloro-6-meth	ylquinoline
	(Contd. of page 3)
Transport/Additional informatio	n:
DOT Marine Pollutant (DOT):	Νο
UN "Model Regulation":	-
Regulatory information	
Safety, health and environmenta	al regulations/legislation specific for the substance or mixture is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P405 Store locked u P501 Dispose of con National regulations This product is not listed in the U.3 to research and development only product must not be used for com. This product is not listed on the C. SARA Section 313 (specific toxi California Proposition 65 Prop 65 - Chemicals known to c Prop 65 - Developmental toxicit Prop 65 - Developmental toxicit Prop 65 - Developmental toxicit Information about limitations of i Other regulations, limitations an Substance of Very High Concer. The conditions of restrictions at	ion. g dust/fume/gas/mist/vapours/spray. e gloves/protective clothing/eye protection/face protection. nse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. emove person to fresh air and keep comfortable for breathing. b. tents/container in accordance with local/regional/national/international regulations. S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted . This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This mercial purposes or in formulations for commercial purposes. anadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). c chemical listings) Substance is not listed. y Substance is not listed. y female Substance is not listed. y male Substance is not listed. y substance is not listed. y male Substance is not listed. modernous of the manufacturing placing on the cording to Article 67 and Annex XVII of the Regulation (EC) No. 1907/2006. Substance is not listed. cording to Article 67 and Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the
Chemical safety assessment: A	Chemical Safety Assessment has not been carried out.
information to ensure proper use a	ation only as a supplement to other information gathered by them, and should make independent judgement of suitability of this and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in fety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Globa. Date of preparation / last revisio Abbreviations and acronyms:	Marketing Department n 11/24/2015 / - narchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) the American Chemical Society) tem (USA) rmation System (Canada)

OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA