

Safety Data Sheet per OSHA HazCom 2012

Reviewed on 01/06/20	100
1 Identification	
Product identifier Product name: 6-Chloro-4-hydroxy-2-(trifluoromethyl)quinoline	
Stock number: B21597 CAS Number:	
18706-21-3 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 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)	
CI 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. 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 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	
$(\overline{\mathbf{T}})$	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I FRE I 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	٦
CAS# Description: 18706-21-3 6-Chloro-4-hydroxy-2-(trifluoromethyl)quinoline	
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 Immediate were with water and egen and rises therewere.	
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. (Contd. on pag	e 2)

Product name: 6-Chloro-4-hydroxy-2-(trifluoromethyl)quinoline

Page 2/4 Printing date 11/24/2015 Reviewed on 01/06/2006

(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 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 Hydrogen chloride (HCI) Nitrogen oxides (NOx) Hydrogen fluoride (HF) Advice for firefighters Protective equimment: 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: Not required. 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 soiled 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 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. **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: Powder Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition 280-289 °C (536-552 °F) Not determined Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

Product name: 6-Chloro-4-hydroxy-2-(trifluoromethyl)quinoline

Page 3/4 Printing date 11/24/2015 Reviewed on 01/06/2006

			(Contd. of page 2)
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product does not present a	n explosion hazard.	
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density:	Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate	Not applicable.		
Solubility in / Miscibility with Water:	Not determined		
Partition coefficient (n-octanol/wat			
Viscosity: dynamic:	Not applicable.		
kinematic:	Not applicable.	tere en el la la	
Other information	No further relevant informat	ion available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under rec. Thermal decomposition / condition Possibility of hazardous reactions Conditions to avoid No further relev Incompatible materials: Oxidizing a Hazardous decomposition produc Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Nitrogen oxides Hydrogen fluoride	No dangerous reactions known /ant information available. igents	n will not occur if used and stored according to specifications.	
Reproductive toxicity: No effects ki Specific target organ system toxic Specific target organ system toxic Aspiration hazard: No effects know Subacute to chronic toxicity: No eff	or classification: No data s skin irritation. serious eye irritation. known. ata on carcinogenic properties o nown. ity - repeated exposure: No efi ity - single exposure: May cau. n. ffects known.	f this material is available from the EPA, IARC, NTP, OSHA or . iects known. se respiratory irritation. • the acute and chronic toxicity of this substance is not fully kno	
12 Ecological information Toxicity Aquatic toxicity: No further relevant Persistence and degradability No f Bioaccumulative potential No furth Mobility in soil No further relevant in Additional ecological information: General notes: Do not allow material to be released Do not allow undiluted product or larg Avoid transfer into the environment. Results of PBT and vPvB assessm PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	Urther relevant information avail er relevant information available nformation available. to the environment without prop ge quantities to reach ground wa nent	er governmental permits.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, loc Uncleaned packagings: Recommendation: Disposal must be	ů,		
14 Transport information Not a hazardous material for transpo	rtation.		
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	
Environmental hazards:		Not applicable.	
Special precautions for user		Not applicable.	
SDECIAL DRECALITIONS FOR LISOR		Not applicable	

(Contd. on page 4)

oduct name: 6-Chloro-4-hydroxy-2-(trifluoro	methyl)quinoline
	(Contd. of page
Transport in bulk according to Annex II of MARPO	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
5 Regulatory information Safety, health and environmental regulations/legis GHS label elements The product is classified and lab Hazard pictograms	Iation specific for the substance or mixture beled in accordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container in au National regulations This product is not listed in the U.S. Environmental Pr to research and development only. This product must product must not be used for commercial purposes or SARA Section 313 (specific toxic chemical listings California Proposition 65 Prop 65 - Chemicals known to cause cancer Subst Prop 65 - Developmental toxicity, Substance is not II Prop 65 - Developmental toxicity, male Substance Prop 65 - Developmental toxicity, male Substance in Information about limitation of use: For use only by Other regulations, limitations and prohibitive regu Substance of Very High Concern (SVHC) accordin	clothing/eyé protection/face protection. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. esh air and keep comfortable for breathing. ccordance with local/regional/national/international regulations. rotection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This in formulations for commercial purposes. s) Substance is not listed. isted. is not listed. is not list
information to ensure proper use and protect the heal conformance with this Material Safety Data Sheet, or Department issuing SDS: Global Marketing Departm	lement to other information gathered by them, and should make independent judgement of suitability of this th and safety of employees. This information is furnished without warranty, and any use of the product not in in combination with any other product or process, is the responsibility of the user. nent
Date of preparation / last revision 11/24/2015'/- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical S HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent	ociety)
VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (U OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Environ Agency (USA)	ISA)

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)