

Safety Data Sheet per OSHA HazCom 2012

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1 Identification	
Product identifier	'
Product name: 4-Chloro-3-(trifluoromethyl)pyridinehydrochloride	!
Stock number: L19556 CAS Number:	'
732306-24-0	'
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 01825-8090	· · · · · · · · · · · · · · · · · · ·
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fel: 800-343-0677	'
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-	0790
	0769.
2 Hazard(s) identification	'
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	· · · · · · · · · · · · · · · · · · ·
GHS06 Skull and crossbones	!
Acute Tox. 3 H301 Toxic if swallowed.	
GHS07	'
\checkmark	!
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	'
	'
GHS06	'
Signal word Danger	'
Hăzard statements H301 Toxic if swallowed.	'
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vanours/sprav	· · · · · · · · · · · · · · · · · · ·
P260 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	· · · · · · · · · · · · · · · · · · ·
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue rinsir P405 Store locked up.	ıg.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	· · · · · · · · · · · · · · · · · · ·
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
(*)(<u>T</u>)	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1	
FIRE 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	
CAS# Description: 732306-24-0 4-Chloro-3-(trifluoromethyl)pyridinehydrochloride	
4 First-aid measures	
2 Pirst-aid measures Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
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(Contd. of page 1) 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. 5 Fire-fighting measures Extinguishing medsures 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) Hydrogen fluoride (HF) Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: 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: 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. 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 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 owne and ching 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. 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: Powder

Color: Odor: Odor threshold: Powder White Not determined Not determined.

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		(Contd. of page 2
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	135 °C (275 °F) (subl) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable Not determined. Not determined Not determined	
Auto igniting: Danger of explosion:	Not determined. Product does not present an explosion hazard.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate	Not determined Not determined Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Soluble	
Viscosity: dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
0 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 agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Hydrogen cyanide	o be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.	
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. ious eye irritation. wm. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. • repeated exposure: No effects known. • single exposure: May cause respiratory irritation.	
2 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 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 relevant information available.		
Uncleaned packagings:	r national regulations to ensure proper disposal.	
Recommendation: Disposal must be ma Recommended cleansing agent: Wate	ade according to official regulations. r, if necessary with cleansing agents.	
4 Transport information Not a hazardous material for transportati	on.	
UN-Number DOT, IMDG, IATA	None	
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Product name: 4-Chloro-3-(trifluoromethyl)pyridinehydrochloride

	(Contd. of page 3)	
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.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	

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



Signal word Danger Hazard statements H301 Toxic if swallowed. 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. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER' doctor/... 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. 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 Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male 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 National regulations 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. 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 11/24/2015 / Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO: Thermational Anitime Code for Dangerous Goods by Rail)
IMG: International Anitime Code for Dangerous Goods Boods
DOT: US Department of Transportation
ICAO: Thermational Anitime Code for Dangerous Goods B
DOT: US Department of Transportation
ICAO: Thermational Anitime Code for Dangerous Goods B
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DOT: US Department of Transportation
ICAO: Thermational Anitime Code for Dangerous Goods
DOT: US Department of Transportation
ICAO: Hulls: Workplace Hazardous Materials Information System (ICAO)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal concentration, 50 percent
LD50: Lethal concentration, 50 percent
US0: Lethal concentration, 50 percent
US0: Lethal concentration, 50 percent
US0: Lethal concentration, 104, Administration (USA)
NTP: National Toxicology Program (USA)
IAP: National Toxicology Program (USA)
IAP: National Toxicology Program (USA)
IAP: Accentrational Agency for Research on Cancer
EPA: Environmental Protection Agency (USA) USA