

Safety Data Sheet per OSHA HazCom 2012

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www.dfa.com information	Fax: 800-322-4757
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USA	Chemical characterization: Substances CAS# Description:
	USA

(Contd. of page 1) 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 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 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 equipment: Wear self-contained respirator. Wear fully protective impervious suit. Extinguishing media 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation 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 horizondar Kenne and Markov Ma Ensure adequate ventulation. **Prevention of secondary hazards:** Keep away from ignition sources. **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: Keep ignition sources away. 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 soiled 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 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. Exposure controls 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Melt (Contd. on page 3)

Product name: 2-Chloro-6-(trifluoromethyl)pyridine

	(Co.	ntd. of page 2)		
Odor:	Not determined			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition				
Melting point/Melting range:	28-29 °C (82-84 °F)			
Boiling point/Boiling range:	60-62 °C (140-144 ′ °F) (8 mmHg)			
Sublimation temperature / start:	Not determined			
Flash point:	78 °C (172 °F)			
Flammability (solid, gaseous)	Not determined			
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			
Vapor pressure:	Not applicable.			
Density:	Not determined			
Relative density	Not determined.			
Vapor density	Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with				
Water:	Insoluble			
Partition coefficient (n-octanol/water)): Not determined.			
Viscosity:				
dynamic:	Not applicable.			
kinematic:	Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known.				
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	o dangerous reactions known			

Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products:

Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Nitrogen oxides Hydrogen fluoride

11 Toxicological information

Information on toxicological effects

Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Reproductive toxicity: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic 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. 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: 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. **Provide transfer into the environment. PBT:** Not applicable. **vPvB:** Not applicable. **Other adverse effects** No further relevant information available.

13 Disposal considerations

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.

Safety Data Sheet per OSHA HazCom 2012

Product name: 2-Chloro-6-(trifluoromethyl)pyridine

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14 Transport information			
UN-Number DOT, IMDG, IATA	UN2811		
UN proper shipping name DOT IMDG. IATA	Toxic solids, organic, n.o.s. (2-Chloro-6-(trifluoromethyl)pyridine) TOXIC SOLID, ORGANIC, N.O.S. (2-Chloro-6-(trifluoromethyl)pyridine)		
Transport hazard class(es)			
DOT			
Rec			
Class Label	6.1 Toxic substances. 6.1		
Class Label	6.1 (T2) Toxic substances 6.1		
IMDG, IATA			
$\langle \rangle$			
Class Label	6.1 Toxic substances. 6.1		
Packing group DOT, IMDG, IATA	III		
Environmental hazards:	Not applicable.		
Special precautions for user	Warning: Toxic substances		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	de Not applicable.		
Transport/Additional information: DOT			
Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (2-Chloro-6-(trifluoromethyl)pyridine), 6.1, III		
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			
GHS06			
Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H31 Toxic if inhaled. H315 Causes skin initation. H315 Causes serious eye iritation. H315 Causes serious eye iritation. Precautionary statements Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Nationary statements P364+P334 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P364+P340 IF IN EYES: Rinwo conto fresh air and keep comfortable for breathing. P361 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 devigopment only. This product must be abed by or directly under the subervision of a technically qualified individual as defined by TSCA. This product must hor be use			
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. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RD: Reglement 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 Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods			
	(Contd. on page 5) USA		

Product name: 2-Chloro-6-(trifluoromethyl)pyridine

- DOT: US Department of Transportation 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 concentration, 50 percent UD50: Lethal dose, 50 percent VPUB: 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)

(Contd. of page 4)

USA