

Safety Data Sheet per OSHA HazCom 2012



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Product name: 3-Chloro-4-(trifluoromethoxy)benzonitrile

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		(Contd. of page 1)
After skin contact Immediately wash with water and soap a	and rinse thoroughly.	
Seek immediate medical advice.	r several minutes under running water. Then consult a doctor	
After swallowing Seek medical treatme	ent.	
Information for doctor Most important symptoms and effects	s. both acute and delayed No further relevant information available.	
Indication of any immediate medical a	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures		
Extinguishing media		
Suitable extinguishing agents Carbon Special hazards arising from the subs	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture	
If this product is involved in a fire, the fol Carbon monoxide and carbon dioxide	llowing can be released:	
Nitrogen oxides (NOx)		
Nitrogen oxides (NOx) Hydrogen chloride (HCl) Hydrogen fluoride (HF)		
Hydroğen cyanide`(HĆN) Advice for firefighters		
Protective equipment:		
Wear self-contained respirator. Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equi	ipment and emergency procedures	
Wear protective equinment Keen uppro	tected persons away	
Environmental precautions: Do not all	low material to be released to the environment without proper governmental permits. I t and cleaning up: Iste according to section 13.	
<i>Methods and material for containmen</i> Dispose of contaminated material as wa	nt and cleaning up: Iste according to section 13.	
Ensure adequate ventilation.	special measures required	
Reference to other sectional y nazards. No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.		
See Section 7 for information on safe ha	and ing al protection equipment.	
See Section 13 for disposal information.		
7 Handling and storage		
Handling Brossutions for onfo hondling		
Precautions for safe handling Keep container tightly sealed.		
Store in cool, dry place in tightly closed of Ensure good ventilation at the workplace	containers.	
Information about protection against	explosions and fires: No information known.	
Conditions for safe storage, including Storage	g any incompatibilities	
Requirements to be met by storeroon	ns and receptacles: No special requirements.	
Further information about storage co	nditions:	
Keep container tightly sealed. Store in cool, dry conditions in well seale	ed containers	
Specific end use(s) No further relevant	information available.	
8 Exposure controls/personal prote	ection	
Additional information about design o	of technical systems:	
	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that rec	quire monitoring at the workplace: Not required.	
Additional information: No data	, .	
Exposure controls Personal protective equipment		
General protective and hygienic meas The usual precautionary measures for h	sures	
Keep away from foodstuffs, beverages a	and feed.	
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the er	thing immediately. nd of work.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w		
Breathing equipment: Use suitable res	spirator when high concentrations are present.	
Protection of hands: Impervious gloves		
Check protective gloves prior to each us	se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Eye protection: Safety glasses		
Body protection: Protective work clothi	ing.	
9 Physical and chemical properties		
Information on basic physical and che General Information	emical properties	
Appearance: Form:	Crystalline	
Color:	White	
Odor: Odor threshold:	Characteristic Not determined.	
pH-value:	Not applicable.	
		(Contd. on page 3)

Product name: 3-Chloro-4-(trifluoromethoxy)benzonitrile

		(Contd. of page 2)
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	39-41 °C (102-106 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined. Not determined. Not applicable. Insoluble Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity		

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 dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCl) Hydrogen fluoride Hydrogen cyanide 11 Toxicological information Information on toxicological effects Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if swallowed. Toxic in contact with skin. 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. 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. Specific target organ system toxicity - repeated 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. Results of PBT and vPvB assessment 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.

14 Transport information

UN-Number DOT, IMDG, IATA

UN3439

(Contd. on page 4)

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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: RID: Reglement international concemnal 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) IGAO: Til: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord europeen sure le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport association ATA: International Astricts Service (division of the American Chemical Society) HMIS: Workplace Hazardous Materials Information Chemical Society) HMIS: Workplace Hazardous Materials Information System (Canada) LCSO: Lethal concentration, 50 percent	UN proper shipping name	(Contd. of page 3)
Transport hazard class(es) DOT C C C C C C C C C C C C C C C C C C C	DOT	Nitriles, solid, toxic, n.o.s. (3-Chloro-4-(trifluoromethoxy)benzonitrile) NITRILES_SOLID_TOXIC_N_O_S_(3-Chloro-4-(trifluoromethoxy)benzonitrile)
OT Class Clas		
Class 6 1 Toxic substances. TransportAdultions for use Warning: Toxic substances. TransportAdultional information: Not substances. OT Market Substances. Class 10 Market Regulation: TransportAdultional information: Market Substances. OT Market Regulation: Status Market Regulation: Market Regulation: Market		
Lobel § 1/27) Class § 1/27) Environmental hazards: Mol Mildo Warring: Class dubtances. Special pre-scalar March electrocic dubtances. Transport/Additional information: Mol DOT Mole Marine Politiciant (DDT): Mol Mildow Regulation*: Mol Steps, Institutional information: Mole	Tauce	
Lobel § 1/27) Class § 1/27) Environmental hazards: Mol Mildo Warring: Class dubtances. Special pre-scalar March electrocic dubtances. Transport/Additional information: Mol DOT Mole Marine Politiciant (DDT): Mol Mildow Regulation*: Mol Steps, Institutional information: Mole	Class	6.1 Toxic substances
Image: International Systems 6.1 Clease 6.1 Clease 6.1 Decking group 6.1 Decking group 1	Label	6.1
Image: Second	Label	
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Label 6.1 Packing group ODT, Midde, LAT Mill OUT, Midde, LAT Mill Special presentions for user Warning: Tools substances Transport Madditional Information: OOT Mill OUT Mill	×	
Label 6.1 Packing group ODT, MOG, MTA III Environmental hazards: Not applicable. Special precautions for user Warning: Toxic substances Transport In bulk according to Annex I of MARPOLT378 and the IBC Code Not applicable. Transport In bulk according to Annex I of MARPOLT378 and the IBC Code Not applicable. Transport In bulk according to Annex I of MARPOLT378 and the IBC Code Not applicable. Transport In bulk according to Annex I of MARPOLT378 and the IBC Code Not applicable. Transport In bulk according to Annex I of MARPOLT378 and the IBC Code Not. UN "Model Regulator": No UN "Model Regulator": UN'3339. Nitriles. solid, toxic. n.o.s. (3-Chloro-4-(trifluoromethoxy)benzonitrile), 6.1, III 55 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 pictors Hazard pictors Safety, health if swalewed or if inhaled. H311 Toxic in contract with skin. H4332 Harmful if swalewed or if inhaled. H311 H431 Toxic in contract with skin. H431 Toxic in contract with skin. H431 Toxic in contract with skin. H431 Toxic in contract		
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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: RID: 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) IGAO: Til: Technical Instructions by the "International Civil Aviation Organization" (IGAO) ADR: Accord europene sure le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport association ATA: International Astricts Service (division of the American Chemical Society) HMIS: Workplace Hazardous Materials Information CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Workplace Hazardous Materials Information System (Canada) UCSO: Lethal concentration, 50 percent	GHS label elements The product is classified and labeled in accordance we hazard pictograms With the pictograms With the pictograms GHS06 Signal word Danger Hazard statements H302+H332 Harmful if swallowed or if inhaled. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. P280 Wear protective gloves / protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several min P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/ National regulations This product is not listed in the U.S. Environmental Protection Agency Toxid	utes. Remove contact lenses, if present and easy to do. Continue rinsing.
LC50: Lethal concentration, 50 percent	to research and development only. This product must be used by or directly product must not be used for commercial purposes or in formulations for co SARA Section 313 (specific toxic chemical listings) Substance is not list 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. Information about limitation of use: For use only by technically qualified Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Reg The conditions of restrictions according to Article 67 and Annex XVI of market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use, Chemical safety assessment: A Chemical Safety Assessment has not be	v under the supervision of a technically qualified individual as defined by TSCA. This mmercial purposes. ted. individuals. nulations (EC) No. 1907/2006. Substance is not listed. of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
	to research and development only. This product must be used by or directly product must not be used for commercial purposes or in formulations for co SARA Section 313 (specific toxic chemical listings) Substance is not list 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. Information about limitation of use: For use only by technically qualified Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Reg The conditions of restrictions according to Article 67 and Annex XVI of market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use, Chemical safety assessment: A Chemical Safety Assessment has not be 16 Other information Employers should use this information only as a supplement to other inform information to ensure proper use and protect the health and safety of emplo conformance with this Material Safety Data Sheet, or in combination with an Department issuing SDS: Global Marketing Department	 under the supervision of a technically qualified individual as defined by TSCA. This mmercial purposes. ted. individuals. individuals. indiations (EC) No. 1907/2006. Substance is not listed. of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the on carried out.

Product name: 3-Chloro-4-(trifluoromethoxy)benzonitrile

LD50: Lethal dose, 50 percent vPvB: 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