

## Safety Data Sheet per OSHA HazCom 2012



(Contd. of page 1)

#### Product name: 1-Chloro-3-(trifluoromethoxy)benzene

### 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 fluoride (HF)

 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

Ensure adequate ventiliation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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
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Keep container tightly sealed. 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: Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat.

Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. 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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with organic vapor/acid gas cartridges as a backup to engineering cou Use a respirator with organic vapor/acid gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands:

Indervious 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 ch General Information Appearance:			
Form: Color: Odor: Odor threshold:	Liquid Colorless to pale yellow Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 140 °C (284 °F) Not determined		
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(Contd. on page 3)

## Product name: 1-Chloro-3-(trifluoromethoxy)benzene

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dynamic:         Not determined           Other Information         No traffer relevant information available.           19 Stability and reactivity         Reactivity to information known.           Control Information known.         Control Information known.           Control Information known.         Control Information known.           Control Information known.         Control Information reactions Reactind Reactind Reactions Reactions Reactind Reactions Reactions Rea	Partition coefficient (n-octanol/water)		
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Additional ecological information:         General notes:         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: Ocnsult 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, ADN, IMDG, IATA       Not applicable         UN proper shipping name       Not applicable         DOT, ADN, IMDG, IATA       Not applicable         PD, ADN, IMDG, IATA       Not applicable         Packing group       Not applicable         Packing group       Not applicable         Packing group       Not applicable         Packing group       Not applicable	Bioaccumulative potential No further r	elevant information available.	
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Results of PBT and vPVB assessment PBT: Not applicable. vPvB: Not applicable.         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, ADN, IMDG, IATA       Not applicable         UN proper shipping name DOT, ADN, IMDG, IATA       Not applicable         DOT, ADN, IMDG, IATA       Not applicable         Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA       Not applicable         DOT, ADR, ADN, IMDG, IATA       Not applicable         Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA       Not applicable         DOT, Tansport hazard class(es)       Not applicable         DOT, IMDG, IATA       Not applicable         Packing group DOT, IMDG, IATA       Not applicable         Packing group DOT, IMDG, IATA       Not applicable         Packing group DOT, IMDG, IATA       Not applicable         Environmental hazards:       Not applicable         Environmental hazards:       Not applicable         Special precautions for user       Not applicable.	Do not allow undiluted product or large of	uantities to reach ground water, water course or sewage system.	
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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, ADN, IMDG, IATA         Not applicable         UN proper shipping name         DOT, ADN, IMDG, IATA         Not applicable         Transport hazard class(es)         DOT, ADR, ADN, IMDG, IATA         Not applicable         Packing group         DOT, IMDG, IATA         Not applicable         Environmental hazards:         Not applicable.         Special precautions for user	vPvB: Not applicable.		
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, ADN, IMDG, IATA       Not applicable         UN proper shipping name DOT, ADN, IMDG, IATA       Not applicable         Transport hazard class(es)       Not applicable         DOT, ADR, ADN, IMDG, IATA       Not applicable         Fransport hazard class(es)       Not applicable         DOT, ADR, ADN, IMDG, IATA       Not applicable         Environmental hazards:       Not applicable         Environmental hazards:       Not applicable         Special precautions for user       Not applicable.	Other adverse effects No further releva	nt information available.	
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14 Transport information         UN-Number         DOT, ADN, IMDG, IATA         Not applicable         UN proper shipping name         DOT, ADN, IMDG, IATA         Not applicable         Transport hazard class(es)         DOT, ADN, IMDG, IATA         DOT, ADN, IMDG, IATA         Not applicable         Packing group         DOT, IMDG, IATA         Not applicable         Special precautions for user	Uncleaned packagings:		
UN-Number DOT, ADN, IMDG, IATA       Not applicable         UN proper shipping name DOT, ADN, IMDG, IATA       Not applicable         Transport hazard class(es)       Not applicable         DOT, ADN, ADN, IMDG, IATA       Not applicable         Packing group DOT, IMDG, IATA       Not applicable         Packing group DOT, IMDG, IATA       Not applicable         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.			
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Transport hazard class(es)         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.	, , , ,	Not applicable	
DOT, ADR, ADN, IMDG, IATA       Not applicable         Class       Not applicable         Packing group DOT, IMDG, IATA       Not applicable         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.		Not applicable	
Class     Not applicable       Packing group DOT, IMDG, IATA     Not applicable       Environmental hazards:     Not applicable.       Special precautions for user     Not applicable.			
Environmental hazards:         Not applicable.           Special precautions for user         Not applicable.	Class	Not applicable	
Environmental hazards:         Not applicable.           Special precautions for user         Not applicable.	Packing group DOT, IMDG, IATA	Not applicable	
(Contd. on page USA	Special precautions for user	Not applicable.	
			(Contd. on page 4) USA

# Safety Data Sheet per OSHA HazCom 2012

	Reviewed on 02/18/2015
Product name: 1-Chloro-3-(trifluorometho	xy)benzene
	(Contd. of page 3)
	ARPOL73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	
15 Regulatory information Safety, health and environmental regulations GHS label elements The product is classified a Hazard pictograms GHS07 Signal word Warning	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gr P280 Wear protective gloves/prote P305+P351+P338 IF IN EYES: Rinse cautiously P304+P340 IF INHALED: Remove persol P405 Store locked up. P501 Dispose of contents/containe National regulations This product is not listed in the U.S. Environmer to research and development only. This product product is not listed on the Canadian Dome SARA Section 313 (specific toxic chemical lis California Proposition 65 Prop 65 - Developmental toxicity, female Subs Prop 65 - Developmental toxicity, male Subst Information about limitation of use: For use o Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed. Substance is not listed.	ective clothing/eyé protection/face protection. y with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. n to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations. Intal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted i must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ses or in formulations for commercial purposes. Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). <b>stings)</b> Substance is not listed. s not listed. s not listed. s not listed. since is not listed. ance is not listed. ance is not listed. ance is not listed.
16 Other information Employers should use this information only as a information to ensure proper use and protect the conformance with this Material Safety Data She	a supplement to other information gathered by them, and should make independent judgement of suitability of this The health and safety of employees. This information is furnished without warranty, and any use of the product not in et, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Depate of preparation / last revision 11/23/2015 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dang DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (USA) WHMIS: Workplace Agazerous Materials Information System (USA) WHMIS: Workplace Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	/ - rereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)