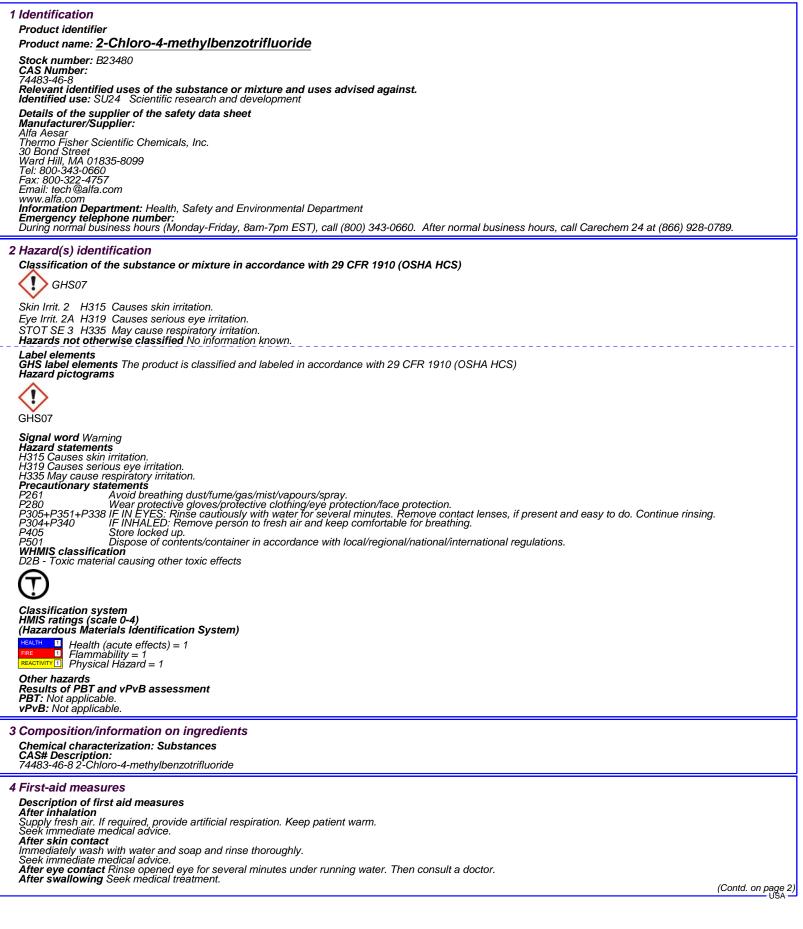


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Chloro-4-methylbenzotrifluoride (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) Hydrogen fluoride (HF) 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 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. 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 General protective equipment General protective and hygienic measures 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 Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable 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: Liauid Not determined Odor: Odor threshold: Not determined. pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined Not determined Sublimation temperature / start: Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Not determined Not determined Not determined (Contd. on page 3)

Product name: 2-Chloro-4-methylbenzotrifluoride

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Decomposition temperature: Not determined Auto igniting: Not determined. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Value Lower: Not determined Upper: Not determined Vapor pressure: Not determined Density: Not determined Relative density Not determined. Vapor consity Not determined. Vapor consity Not determined. Vapor density Not determined. Viscosity: Not determined. Viscosity: Not determined. Viscosity: Not determined. Vapor section rate Not determined. Viscosity: Not determined. Vapor section (n-octanol/water): Not determined. Viscosity: Not determined.	
Explosion limits: Not determined Lower: Not determined Upper: Not determined Vapor pressure: Not determined Density: Not determined Relative density Not determined. Vapor density Not determined. Vapor density Not determined. Solubility in / Miscibility with Not determined. Water: Not determined. Partition coefficient (n-octanol/water): Not determined. Viscosity:	
Lower: Not determined Upper: Not determined Vapor pressure: Not determined Density: Not determined Relative density Not determined. Vapor density Not determined. Vapor density Not determined. Vapor density Not determined. Solubility in / Miscibility with Not determined. Water: Not determined. Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined.	
Upper: Not determined Vapor pressure: Not determined Density: Not determined Relative density Not determined. Vapor density Not determined. Solubility in / Miscibility with Not determined. Water: Not determined. Partition coefficient (n-octanol/water): Not determined. Not determined. Viscosity: Not determined.	
Density: Not determined Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not determined. Water: Not determined. Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined.	
Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not determined. Water: Not determined. Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined.	
Evaporation rate Not determined. Solubility in / Miscibility with Not determined Water: Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity:	
Water: Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity:	
Partition coefficient (n-octanol/water): Not determined. Viscosity:	
kinematic: Not determined. 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 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)	
Hydroğen fluoride	
11 Toxicological information	
Information on toxicological effects	
Acute toxicity: No effects known. 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.	
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.	
Specific target organ system toxicity - repeated exposure; No effects known.	
Specific target organ system toxicity - single exposure: May cause respiratory irritation. 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.	
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 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.	
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 Not a hazardous material for transportation.	
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	
DOT, IMDG, IATA None Environmental hazards: Not applicable.	
Special precautions for user Not applicable.	
	(Contd. on page 4)

(Contd. on page 4) USA

USA -

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 5 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 Image: Comparison of the substance of the substance or mixture statements Signal word Warning Hazard statements H315 Causes skin initation. H315 Causes skin initation. H315 Gauses skin initation. Frequencies/presson of the substance or contact lenses, if present and easy to do. Continue rinsing. P304-P301 /F UNALED: Remove person to fresh air and keep comfortable for breathing. P404 Store locked up. P501 Disposed contents/container in accordance with local/regional/national/international regulations. National regulations This product is product is restrict. Payote for the shore of ring dust/um/payos of in a conducte with local/regional/national/international regulations. National regulations File Nature bio product is restrict. Properson provide the not lost of the product is restrict. Prop 65 - Developmental lowicity, substance is not listed. Prop 65 - Developmental lowicity, male Substance is not listed. Prop 65 - Developmental lowicity, male Substance is not listed. Prop 65 - Developmental lowicity, male Substance is not listed. Prop 65 - Developmental lowicity, male Substance is not listed. Prop 65 - Developmental lowicity, male Substance is not listed. Pro	Product name: 2-Chloro-4-methylbenzotrifluoride		
Transport/Additional information: Not dangerous according to the above specifications. DOT Marine Pollutant (DOT): No 5 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) Mazard public torgrams <i>O</i> <i>O</i> <i>O</i> <i>O</i> <i>O</i>		(Contd. of page	
DOT Marine Pollutant (DOT): No 5 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GMS label elements. The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms <i>OF</i> Signal word Warning Hazard statements H315 Causes skin initiation. H315 Causes serious eye initiation. H315 Causes and thereathing dust/Iume/gas/mist/vapours/spray. P304 H2340 IF INHALED: Remove person to tresh air and keep comfortable for breathing. P305 H2331 F[IN VFS]: Rinse caulous by with water of vs everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304 D1 Spose of contents/container in accordance with local/regional/national/international regulations. Mational regulations This product in us to the use of or commental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict to research and development only. This product must be used by or directly under the suppervision of a technically squalified individual as de			
Marine Pollutant (DOT): No 5 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GMS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms <i>Q Q</i>	•	Not dangerous according to the above specifications.	
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 GHSor Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H310 Causes serious eye cause exports of the serious controlection for several minutes. Remove contract lenses, if present and easy to do. Continue rinsing. H310 Causes serious eye of contents/container in accordance with local/regional/national/international regulations. Mational regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of 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. SAFA Section 313 (specific toxic chemical listings) Substance is not listed. Frop 65 - Developmental toxicity, female Substance is not listed. Fro		No	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Mational 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 of the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 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 Atticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th	Safety, health and environmental regulations/legislatio GHS label elements The product is classified and labeled Hazard pictograms GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vap P280 Wear protective gloves/protective cloth	l in accordance with 29 CFR 1910 (OSHA HCS) pours/spray. ing/eve protection/face protection.	
	P405 Store locked up. P501 Dispose of contents/container in accord National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be used product must not be used for commercial purposes or in fo SARA Section 313 (specific toxic chemical listings) Sul California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, male Substance is not Information about limitation of use: For use only by tech Other regulations, limitations and prohibitive regulation Substance of Very High Concern (SVHC) according to	dance with local/regional/national/international regulations. tion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricture is a by or directly under the supervision of a technically qualified individual as defined by TSCA. This is mulations for commercial purposes. is stance is not listed. to to listed. to tot listed. t listed. t listed. t listed. t nically qualified individuals. the REACH Regulations (EC) No. 1907/2006. Substance is not listed.	
	Information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in con Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMD6: International Maritime Code for Dangerous Goods D07: US Department of Transport Association IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Hazardous Materials Identification System (USA) WHMIS: Unorkplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent UPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) NTP: National Agency (or Research on Cancer	Int to other information gathered by them, and should make independent judgement of suitability of this Ind safety of employees. This information is furnished without warranty, and any use of the product not in mbination with any other product or process, is the responsibility of the user.	

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