

Safety Data Sheet per OSHA HazCom 2012

1 Identification

Product identifier Product name: 3,4,5-Trichlorobenzotrifluoride Stock number: L14195 CAS Number: 50594-82-6 EC number: 256-636-6 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. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 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) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) ! GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye 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 ! GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362 Take off contaminated clothing. P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P321 If skin irritation occurs: Get medical advice/attention. P321 P332+P313 P337+P313 If eye irritation persists: Get medical advice/attention. WHMIS classification D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammability = 1Physical 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: 50594-82-6 3,4,5-Trichlorobenzotrifluoride Identification number(s): EC number: 256-636-6 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 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. (Contd. on page 2)

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Product name: 3,4,5-Trichlorobenzo	trifluoride		
After swallowing Seek medical treatme Information for doctor Most important symptoms and effects	ent. s, both acute and delayed No further relevant information available.	(Contd. of page 1)	
Indication of any immediate medical a	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 If this product is involved in a fire, the for 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.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture llowing can be released:		
6 Accidental release measures			
Methods and material for containmen	ntected persons away. The content of the environment without proper governmental permits. It and cleaning up: d, diatomite, acid binders, universal binders, sawdust). ep away from ignition sources. andling al protection equipment.		
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 awa'y from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.			
Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. 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: Color:	Liquid Colorless		
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	-108 °C 200-202 °C (392-396 °F) Not determined		
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Product name: 3,4,5-Trichlorobenzotrifluoride

Product name: 3,4,5-Trichlorobenzo	otrifluoride			
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Flash point: Flammability (solid, gaseous)	98 °C (208 °F) Not determined.			
Ignition temperature: Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.			
Lower: Upper:	Not determined Not determined			
Vapor pressure: Density at 20 °C (68 °F):	Not determined 1.6 g/cm³ (13.352 lbs/gal)			
Relative density	Not determined.			
Vapor density Evaporation rate	Not determined. Not determined.			
Solubility in / Miscibility with	Not miscible or difficult to mix			
Partition coefficient (n-octanol/water) Viscosity:				
dynamic: kinematic:	Not determined. Not determined.			
Other information	No further relevant information available.			
10 Stability and reactivity Reactivity No information known.				
Chemical stability Stable under recom	mended 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) Hydrogen fluoride				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: No effects known. LD/LC50 values that are relevant for o	classification: No data			
Skin irritation or corrosion: Causes serious eye irritation.				
Sensitization: No sensitizing effects kn	nown.			
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: No effects known. Aspiration hazard: No effects known.				
Subacute to chronic toxicity: No effect Additional toxicological information:	cts known. 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 Nó 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. Avoid transfer into the environment.				
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.				
vPvB: Not applicable. Other adverse effects No further releva	ant information available.			
13 Disposal considerations				
Waste treatment methods				
Uncleaned packagings:	or national regulations to ensure proper disposal.			
Recommendation: Disposal must be n	nade according to official regulations.			
14 Transport information Not a hazardous material for transportation	tion.			
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	Nono			
Environmental hazards:	None Not applicable.			
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