



	Reviewed on 10/17/2006
1	1 Identification
	Product identifier Product name: 2-Fluoro-5-methoxybenzotrifluoride
	Stock number: B24563, L18229
	CAS Number:
	127271-65-2 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. 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	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.
	STOT SE 3 H335 May cause respiratory irritation.
	H227 Combustible liquid. 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
	\wedge
	GHS07
	Signal word Warning Hazard statements
	H227 Combustible liquid. H315 Causes skin irritation.
	H319 Causes serious eye irritation. H335 May cause respiratory irritation.
	Precautionary statements
	P261 Avoid breathing dust/fume/gas/mist/vapours/sprav.
	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.
	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
	WHMIS classification B3 - Combustible liquid
	D2B - Toxic material causing other toxic effects
	Classification system
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
	HEALTH I Health (acute effects) = 1
	FRE 2 1 REACTIVITY Physical Hazard = 1
	Other hazards
	Results of PBT and vPvB assessment PBT: Not applicable.
	vPvB: Not applicable.
3	3 Composition/information on ingredients
	Chemical characterization: Substances CAS# Description:
	127271-65-2 2-Fluoro-5-methoxybenzotrifluoride
4	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.
	(Contd. on page 2) USA

Product name: 2-Fluoro-5-methoxybenzotrifluoride (Contd. of page 1) 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 freatment 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) Advice for fireficient 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on order band 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. Prevent formation of aerosols. 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 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. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Liquid Colorless Odor: Not determined Odor threshold: Not determined Not determined. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined Not determined

(Contd. on page 3)

Product name: 2-Eluoro-5-methoxybenzotrifluoride

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Product name: 2-Fluoro-5-methoxy	benzotrifluoride	
		(Contd. of page 2)
Sublimation temperature / start:	Not determined 67 °C (153 °F)	
Flash point: Flammability (solid, gaseous)	Not determinéd.	
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:	Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density: Relative density	Not determined Not determined.	
Vapor density	Not determined. Not determined.	
Evaporation rate Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/wate	Not determined r): Not determined.	
Viscosity: dynamic:	Not determined.	
kinematic:	Not determined.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions N Conditions to avoid No further releva Incompatible materials: Oxidizing ag Hazardous decomposition products Carbon monoxide and carbon dioxide Hydrogen fluoride	nt information available.	
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 skin irritation. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated 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. Additional ecological information: General notes: Do not allow malerial 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 ervironment. PBT: Not applicable. Other adverse effects No further relevant information available. Other adverse effects No further relevant information available. PBT: Not applicable. Other adverse effects No further relevant information available.		
Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be	or national regulations to ensure proper disposal. made according to official regulations.	
14 Transport information Not a hazardous material for transporta	ation.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name		
DOT, IMDG, IATA Transport hazard class(es)	None	
DOT, IMDG, IATA		
Class	None	
Class Label	None 3	
		(Contd. on page 4)

oduct name: 2-Fluoro-5-methoxybenzotrifluoride	
Posting every	(Contd. of pag
Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 an	nd the IBC Code Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulations/legislation spe GHS label elements The product is classified and labeled in ac Hazard pictograms GHS07	ecific for the substance or mixture cordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container in accordance National regulations This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used b product must not be used for commercial purposes or in formula SARA Section 313 (specific toxic chemical listings) Substan California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is no Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed information about limitation of use. For use only by technical	/spray. ye protection/face protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. a with local/regional/national/international regulations. Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrictly by or directly under the supervision of a technically qualified individual as defined by TSCA. This ations for commercial purposes. Ince is not listed. bot listed. td. Ily qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Agency Toxic Substances (EC) No. 1907/2006 (REACH) for the manufacturing, placing on
information to ensure proper use and protect the health and safe conformance with this Material Safety Data Sheet, or in combine	other information gathered by them, and should make independent judgement of suitability of this ety of employees. This information is furnished without warranty, and any use of the product not i ation 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 accoryms: RID: Reglement international concernant le transport des marchandises dangereuse: IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associ (AC). International Civil Aviation Organization ICAO: International Instructions by the "International Air Transport Associ MDG: International Instructions by the "International Civil Aviation Organization" (ICAO: TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO: TI: Technical Instructions by the International Civil Aviation Organization" (ICAO: TI: SD Epartment of Transportation UATA: International Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UD50: Lethal concentration, 50 percent UD50: Lethal concentration, 50 percent UD50: 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 Apency for Research on Cancer EPA: Environmental Protection Agency (USA)	es par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) iation" (IATA) AO) U