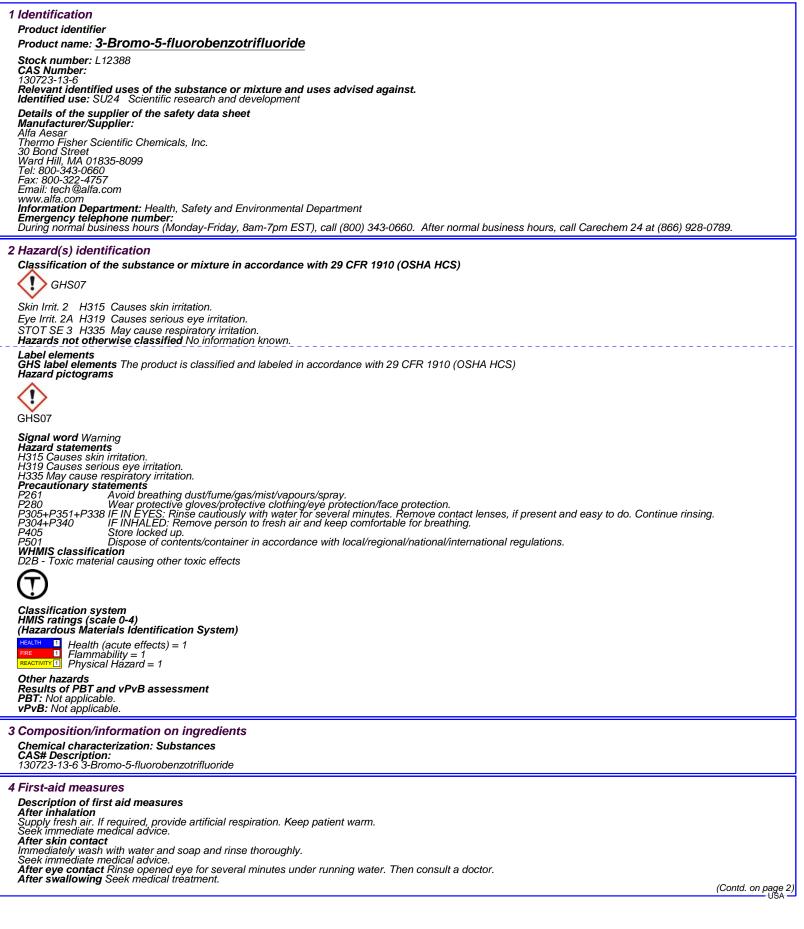


Safety Data Sheet per OSHA HazCom 2012



Product name: 3-Bromo-5-fluorobenzotrifluoride (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 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 bromide (THT) 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 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 chemical properties General Information Appearance: Form: iquid Odor: Not determined Odor threshold: Not determined pH-value: Not determined , Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Flash point: Not determined Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

Product name: 3-Bromo-5-fluorobenzotrifluoride

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Product name: 3-Bromo-5-fluorober		
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Vapor density	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined. Not determined. Not determined.	
Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water)	Not determined. Not determined : Not determined.	
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 Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Hydrogen bromide	t information available. nts	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to to Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant	relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. It	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportat	tion.	
UN-Number DOT, IMDG, IATA UN proper shipping name	None	
DOT, IMDG, IATA Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	c II of MARPOL73/78 and the IBC Code Not applicable.	
		(Contd. on page 4)

oduct name: 3-Bromo-5-fluorobenzotrifluorid	
Transnert/Additional information.	(Contd. of pag
Transport/Additional information: DOT	Not dangerous according to the above specifications.
Marine Pollutant (DOT):	No
P405 Store locked up. P501 Dispose of contents/container in acc National regulations This product is not listed in the U.S. Environmental Prot to research and development only. This product must be product must not be used for commercial purposes or in SARA Section 313 (specific toxic chemical listings) California Proposition 65 Prop 65 - Chemicals known to cause cancer Substar Prop 65 - Developmental toxicity, female Substance is Information about limitation of use: For use only by to Other regulations, limitations and prohibitive regula	ivapours/spray. over the second ance with 29 CFR 1910 (OSHA HCS) we protection face protection. atter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. shair and keep comfortable for breathing. cordance with local/regional/national/international regulations. tection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict e used by or directly under the supervision of a technically qualified individual as defined by TSCA. This source is not listed. ted. is not listed. not listed. not listed. not listed. not listed.
Annex XIV of the REACH Regulations (requiring Aut Chemical safety assessment: A Chemical Safety Ass	thorisation for use) Substance is not listed.
Other information Employers should use this information only as a supple information to ensure proper use and protect the health	ment to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not i combination with any other product or process, is the responsibility of the user. nt