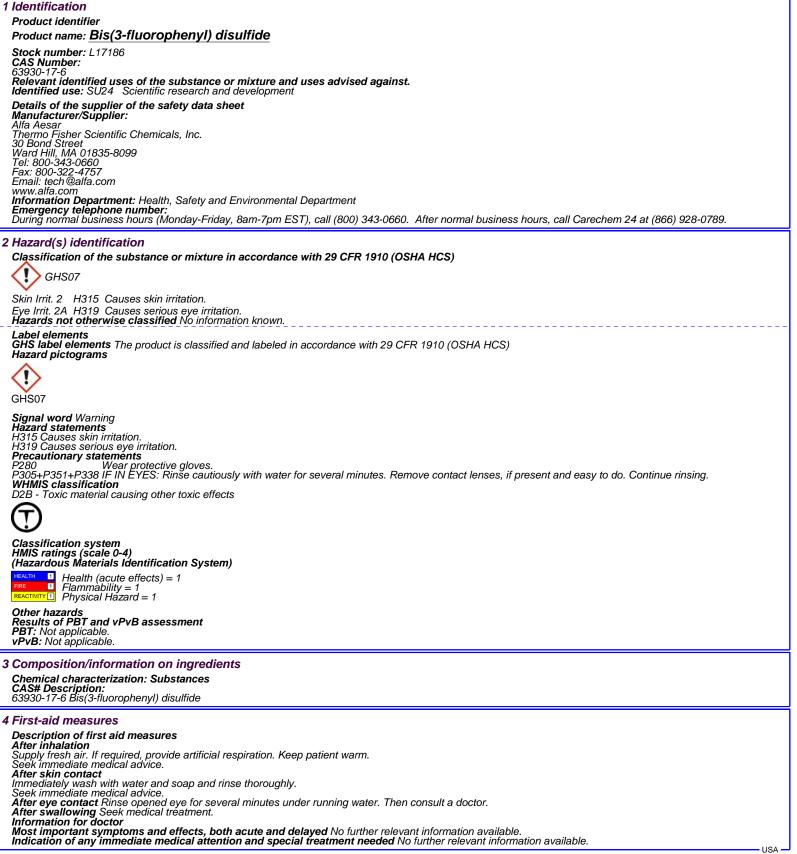


Safety Data Sheet per OSHA HazCom 2012



# Product name: Bis(3-fluorophenyl) disulfide

(Contd. of page 1)

## 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) Sultur ovides (SOV)

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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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

Personal protective equipment General protective and hygienic measures

Ceneral protective and nyglenic 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 eves and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious cloves

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

s i nysicai ana chemicai propertie.	5
Information on basic physical and ch General Information Appearance:	
Form:	Liquid
Color:	Yellow
Odor:	Unpleasant
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 308 °C (586 °F) Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	> 110 °C (> 230 °F) Not determined. Not determined Not determined Not determined.
Danger of explosion:	Product does not present an explosion hazard.
	(Contd on page 3)

(Contd. on page 3)

# Product name: Bis(3-fluorophenyl) disulfide

Product name: Bis(3-fluorophenyl) o	lisulfide	
		(Contd. of page 2)
Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not determined 1.27 g/cm <sup>3</sup> (10.598 lbs/gal) Not determined. Not determined. Not determined.	
Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not miscible or difficult to mix : Not determined. Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Sulfur oxides (SOx)	t information available.	
Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	cin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. <i>In.</i> <b>- repeated exposure:</b> No effects known. <b>- single exposure:</b> No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No furthe Bioaccumulative potential No further relevant Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to th Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releval	elevant information available. mation available. he environment without proper governmental permits. <b>t</b>	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	or national regulations to ensure proper disposal. ade according to official regulations.	
<b>14 Transport information</b> Not a hazardous material for transportati	ion.	
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	
Environmental hazards: Special precautions for user	Not applicable. Not applicable.	
Transport in bulk according to Annex Transport/Additional information:	II of MARPOL73/78 and the IBC Code Not applicable. Not dangerous according to the above specifications.	
		(Contd. on page 4)

(Contd. on page 4)

Product name: Bis(3-fluorophenyl) disulf	fide
	(Contd. of page 3)
DOT Marine Pollutant (DOT):	No
<b>15 Regulatory information</b> Safety, health and environmental regulation GHS label elements The product is classified a Hazard pictograms GHS07	ns/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
National regulations This product is not listed in the U.S. Environme to research and development only. This produc product must not be used for commercial purpoc SARA Section 313 (specific toxic chemical II California Proposition 65 Prop 65 - Chemicals known to cause cancer Prop 65 - Developmental toxicity Substance of Prop 65 - Developmental toxicity, female Subs Information about limitation of use: For use of Other regulations, limitations and prohibitiv Substance of Very High Concern (SVHC) acd The conditions of restrictions according to a market and use must be observed. Substance is not listed.	r Substance is not listed. is not listed. ubstance is not listed. stance is not listed. only by technically qualified individuals. ve regulations cording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the wiring Authorisation for use) Substance is not listed.
information to ensure proper use and protect th	a supplement to other information gathered by them, and should make independent judgement of suitability of this he health and safety of employees. This information is furnished without warranty, and any use of the product not in neet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing D Date of preparation / last revision 11/24/2015	Department 15 / - rchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) nal Air Transport Association" (IATA) ation Organization" (ICAO) hemical Society)