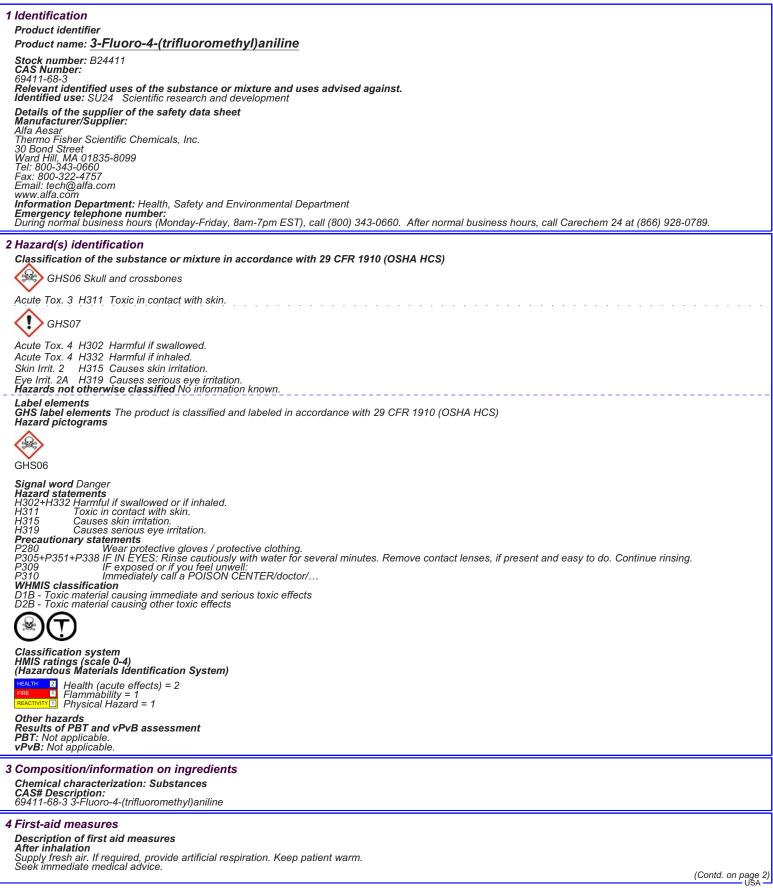


Safety Data Sheet per OSHA HazCom 2012



Safety Data Sheet per OSHA HazCom 2012

Product name: 3-Fluoro-4-(trifluoromethyl)aniline

	Review	ved on 01/28/2010
Product name: 3-Fluoro-4-(trifluorom	nethyl)aniline	
After skip esstert		(Contd. of page 1)
After skin contact Immediately wash with water and soap and Immediately wash with water and soap	nd rinse thoroughly.	
Seek immediate medical advice. After eye contact Rinse opened eye for	several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatmen Information for doctor		
Most important symptoms and effects, Indication of any immediate medical a	, both acute and delayed Methemoglobinemia ttention and special treatment needed No further relevant information available.	
5 Fire-fighting measures		
Extinguishing media		
For safety reasons unsuitable extingui	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. ishing agents Water with full jet.	
Special hazards arising from the subsidered of t	tance or mixture lowing can be released:	
Carbon monoxide and carbon dioxide Hydrogen fluoride (HF)		
Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN)		
Advice for firefighters		
Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equip	oment and emergency procedures	
Wear protective equipment. Keep unprote Ensure adequate ventilation	ected persons away.	
Methods and material for containment	w material to be released to the environment without proper governmental permits.	
Dispose of contaminated material as was Ensure adequate ventilation.	ste according to section 13.	
Prevention of secondary hazards: No s Reference to other sections	special measures required.	
See Section 7 for information on safe har See Section 8 for information on persona	ndling Il 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 c Ensure good ventilation at the workplace.	ontainers.	
Ensure good ventilation at the workplace. Information about protection against e	explosions and fires: No information known.	
Conditions for safe storage, including Storage	any incompatibilities	
Requirements to be met by storeroom	s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents.	
Further information about storage con Keep container tightly sealed.	ditions:	
Store in cool, dry conditions in well seale Specific end use(s) No further relevant i	d containers. information available	
8 Exposure controls/personal prote Additional information about design or		
Properly operating chemical fume hood d	lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that requ	uire monitoring at the workplace: Not required.	
Additional information: No data		
Personal protective equipment General protective and hygienic measured	ures	
The usual precautionary measures for ha Keep away from foodstuffs, beverages an	ndling chemicals should be followed. nd feed.	
Remove all soiled and contaminated cloth Wash hands before breaks and at the en	hing immediately.	
Breathing equipment: Use suitable resp Protection of hands:	orking environment. oirator when high concentrations are present.	
Impervious gloves Check protective gloves prior to each use	e for their proper condition.	
The selection of suitable gloves not only of Penetration time of glove material (in r	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
Eye protection: Safety glasses Body protection: Protective work clothin	ng.	
9 Physical and chemical properties	-	
Information on basic physical and che	mical properties	
General Information Appearance:		
Form: Color:	Crystalline Brown	
Odor:	Characteristic Not determined.	
	Not applicable.	
		(Contd. on page 3)

Product name: 3-Fluoro-4-(trifluoromethyl)aniline

		(Contd. of page 2)
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	54-58 °C (129-136 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined. Not applicable. Insoluble Not applicable. Not applicable.	
0 Stability and reactivity		

10 Sta

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 fluoride Nitrogen oxides Possibly Hydrogen cyanide (HCN) 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if swallowed. Harmful if swallowed. Toxic in contact with skin. Danger through skin absorption. 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. 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. Renroductive forcitur: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA OFACGIH. 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. Subacute to chronic toxicity: Absorption into the body may lead to the formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly death. Onset may be delayed 2-4 hours or longer. 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. Mobility in soil No further relevant information available. Additional accological information 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 transferinto the environment.

Results of PBT and vPvB assessment 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

UN-Number DOT, IMDG, IATA

Safety Data Sheet per OSHA HazCom 2012	
per OSHA HazCom 2012	

	(Contd. of page 3)
UN proper shipping name DOT IMDG, IATA	Toxic solids, organic, n.o.s. (3-Fluoro-4-(trifluoromethyl)aniline) TOXIC SOLID, ORGANIC, N.O.S. (3-Fluoro-4-(trifluoromethyl)aniline)
Transport hazard class(es)	
DOT	
Taxo	
Class	6.1 Toxic substances.
Label Class	6.1 6.1 (T2) Toxic substances
Label IMDG, IATA	6.1
Class	6.1 Toxic substances.
Label	6.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL73/78 ar	nd the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (3-Fluoro-4-(trifluoromethyl)aniline), 6.1, III
P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor National regulations This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used to product must not be used for commercial purposes or in formula SARA Section 313 (specific toxic chemical listings) Substar California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not list Information about limitation of use: For use only by technical Other regulations.	Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This ations for commercial purposes. Ince is not listed. bt listed. sted. Intel sted. Ily qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Innex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the tion for use) Substance is not listed.
information to ensure proper use and protect the health and saf conformance with this Material Safety Data Sheet, or in combin Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	other information gathered by them, and should make independent judgement of suitability of this fety of employees. This information is furnished without warranty, and any use of the product not in ation with any other product or process, is the responsibility of the user. es par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) lation" (IATA) AO) European Agreement concerning the International Carriage of Dangerous Goods by Road)
Lous. Leurar dose, ou percent	(Contd. on page 5)

Product name: 3-Fluoro-4-(trifluoromethyl)aniline

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 Agency for Research on Cancer EPA: Environmental Protection Agency (USA) (Contd. of page 4)

USA