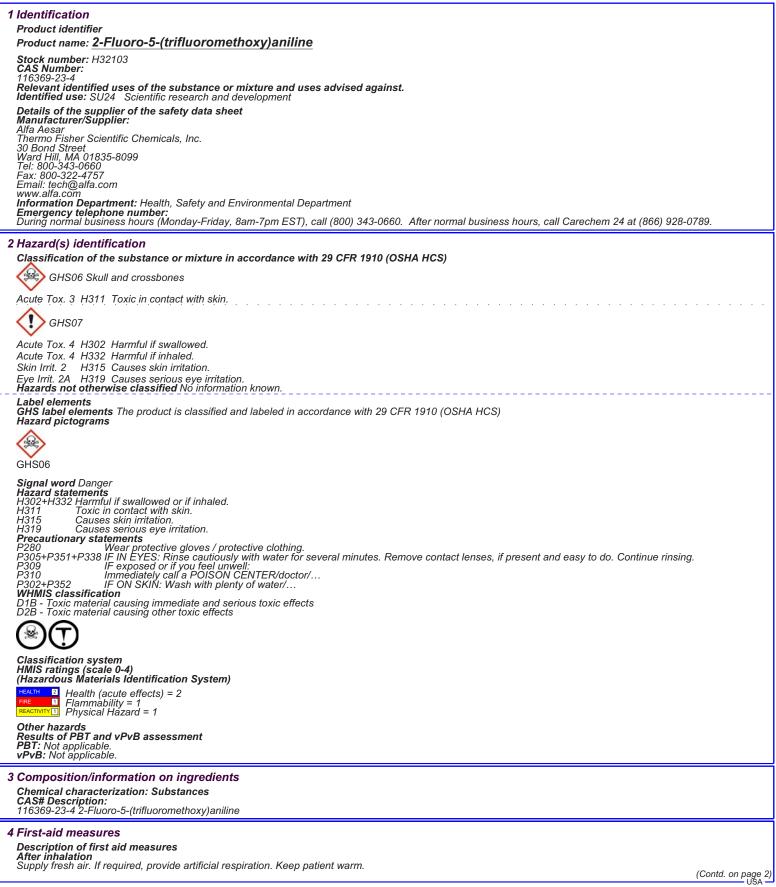


Safety Data Sheet per OSHA HazCom 2012



2-Eluoro-5-(trifluoromethoxy)aniline

Product name: 2-Fluoro-5-(trifluoromethoxy)aniline 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. 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. S Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant 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. Nitrogen oxides (NOX) Possible y-Hydrogen fluoride (HEN) Hydrogen fluoride (respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear fully protective impervious suit. Environmental precautions: Do not allow material	(Contd. of page 1)
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. 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 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 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 Nitrogen lovides (NOX) Possibly Hydrogen cyanide (HCN) Hydrogen fluoride (HF) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear self-contained respirator. Wear 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-clinding material (altamite, acid binders, universal binders, sawdust). Dispose of contaminated material is waste according to section 13. Ensure adequate ventilation. Environmental per entialision. Environmental per entialision. Reference to other sections	
Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant 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 Nitrogen oxides (NOX) Possibly Hydrogen cyanide (HCN) Hydrogen cyanide (HF) Advice for firefighter's 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 for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections	foam.
 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). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections Prevention of sections Provention of sections Proventions Proventions 	
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 minut Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective equipment measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied 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. Protective of hands: Impervious gloves Chieck 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. 	'e.
9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Colorless to yellow Odor: Characteristic	(Contd. on page 3)

Product name: 2-Fluoro-5-(trifluoromethoxy)aniline

Product name: 2-FILOIO-5-(ITIILOIO	meuroxy/annine	
Odor threshold:	Not determined.	(Contd. of page 2)
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: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined 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 determined Not determined. Not determined.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recon Thermal decomposition / conditions Possibility of hazardous reactions N Conditions to avoid No further releva. Incompatible materials: Oxidizing age Hazardous decomposition products. Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride Possibly Hydrogen cyanide (HCN)	ents	
Reproductive foxicity: No effects kno Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	skin irritation. erious eye irritation. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. / - repeated exposure: No effects known. / - single exposure: No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. nt	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be i	or national regulations to ensure proper disposal. made according to official regulations.	USA
		(Contd. on nade 4)

(Contd. on page 4)

Safety Data Sheet per OSHA HazCom 2012

Product name: 2-Fluoro-5-(trifluoromethoxy)aniline

(Contd. of page 3)

	(Contd. of page
Transport information	
UN-Number DOT, IMDG, IATA	UN2810
UN proper shipping name	0142010
DOT IMDG, IATA	Toxic, liquids, organic, n.o.s. (2-Fluoro-5-(trifluoromethoxy)aniline) TOXIC LIQUID, ORGANIC, N.O.S. (2-Fluoro-5-(trifluoromethoxy)aniline)
Transport hazard class(es)	
DOT	
Class	6 1 Tavia autotanaca
Class Label	6.1 Toxic substances. 6.1
Class Label	6.1 (T1) Toxic substances 6.1
IMDG, IATA	
< <u>*</u> >	
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
EMS Number: Transport in bulk according to Annex II of MARPOL73/78 and	F-A,S-Ă
Transport in bulk according to Annex if of MARPOL73/78 and Transport/Additional information:	
DOT	
Marine Pollutant (DOT): UN "Model Regulation":	No
ON Model Regulation .	UN2810, Toxic, liquids, organic, n.o.s. (2-Fluoro-5-(trifluoromethoxy)aniline), 6.1, li
GHS label elements The product is classified and labeled in acco Hazard pictograms GHS06 Signal word Danger Hazard statements	ific for the substance or mixture ordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms GHS06 Signal word Danger Hazard statements H302+H332 Harmful if swallowed or if inhaled. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements P280 Wear protective gloves / protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for ser P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/ P302+P352 IF ON SKIN: Wash with plenty of water/ National regulations This product is not listed in the U.S. Environmental Protection Age to research and development only. This product must be used for commercial purposes or in formulatic SARA Section 313 (specific toxic chemical listings) Substances California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity for the FE.	everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte or directly under the supervision of a technically qualified individual as defined by TSCA. This ons for commercial purposes. a is not listed. d. qualified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed.
Hazard pictograms GHS06 Signal word Danger Hazard statements H302+H332 Harmful if swallowed or if inhaled. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements P280 Wear protective gloves / protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for ser P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/ P302+P352 IF ON SKIN: Wash with plenty of water/ National regulations This product is not listed in the U.S. Environmental Protection Age to research and development only. This product must be used by product must not be used for commercial purposes or in formulatic SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity Substance is not list	everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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Safety Data Sheet per OSHA HazCom 2012

Product name: 2-Fluoro-5-(trifluoromethoxy)aniline

HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: 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 Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA