

# Safety Data Sheet per OSHA HazCom 2012

Reviewed on	05/21/2009
1 Identification	
Product identifier Product name: <b>2-Fluoro-3-(trifluoromethyl)benzylamine</b>	
Product name: <u>2-FIUOFO-3-(trinuorometnyi)benzylamine</u> Stock number: L12428	
CAS Number: 1/2420 CAS Number: 239135-49-0	
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:	
Alta 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 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eve Dam 1 – H318 Causes serious eve damage	
Eye Dam. 1 H318 Causes serious eye damage. 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	
GHS05	
Signal word Danger Hazard statements H227 Combustible liquid.	
H314 Causes severe skin burns and eye damage. Precautionary statements	
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe dust/fume/cas/mist/vapours/sprav	
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 E - Corrosive material	
Classification system	l
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	l
HEALTH I Health (acute effects) = 3	
FIRE 2 Flammàbility = 2 REACTIVITY 1 Physical Hazard = 1	l
Other hazards Besults of BBT and yByB assessment	
Results of PBT and vPvB assessment PBT: Not applicable.	l
vPvB: Not äpplicable.	
3 Composition/information on ingredients Chemical characterization: Substances	l
CAS# Description:	l
239135-49-0 2-Fluoro-3-(trifluoromethyl)benzylamine	
4 First-aid measures Description of first aid measures	
General information Immediately remove any clothing soiled by the product.	
<b>After inhalation</b> 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. Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. (Cont	td. on page 2)
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After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes servere skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further rea	(Contd. of page 1) levant information available.
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight lar 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) Hydrogen fluoride (HF) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	ger fires with water spray or alcohol resistant foam.
6 Accidental release measures	
<ul> <li>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 p         Methods and material for containment and cleaning up:         Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).         Use neutralizing agent.         Dispose of contaminated material as waste according to section 13.         Ensure adequate ventilation.         Prevention of secondary hazards: Keep away from ignition sources.         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.     </li> </ul>	proper governmental permits.
7 Handling and storage	
Handling         Precautions for safe handling         Handle under dry protective gas.         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: 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.         Store away from air.         Further information about storage conditions:         Store dry inert gas.         This product is air sensitive.	
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 avera Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	age face velocity of at least 100 feet per minute.
Additional information: No data Exposure controls 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 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. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition	

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:** Tightly sealed goggles Full face protection **Body protection:** Protective work clothing.

USA

## Product name: 2-Fluoro-3-(trifluoromethyl)benzylamine

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9 Physical and chemical properties						
Information on basic physical and chemical properties						
General Information Appearance:						
Form:	Liquid					
Color: Odor:	Colorless 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 193 °C (379 °F) Not determined					
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	83 °C (181 °F) Not determined. Not determined Not determined					
Auto igniting:	Not determined.					
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Product does not present an explosion hazard. Not determined Not determined 1.321 g/cm³ (11.024 lbs/gal) Not determined. Not determined. Not determined.					
Water:	Not miscible or difficult to mix					
Partition coefficient (n-octanol/water): Viscosity:	Not determined.					
dynamic: kinematic:	Not determined. Not determined.					
Other information	No further relevant information available.					
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: Air Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride Hydrogen cyanide						
11 Toxicological information         Information on toxicological effects         Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.         LD/LC50 values that are relevant for classification: No data         Skin irritation or corrosion: Causes severe skin burns.         Eye irritation or corrosion: Causes severe skin burns.         Sensitization: No sensitizing effects known.         Germ cell mutagenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.         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.         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. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Avoid transfer into 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 o	or national regulations to ensure proper disposal.	(Contd. on page 4)				

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## Product name: 2-Fluoro-3-(trifluoromethyl)benzylamine

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN2735 UN proper shipping name DOT Amines, liquid, corrosive, n.o.s. (2-Fluoro-3-(trifluoromethyl)benzylamine) AMINES, LIQUID, CORROSIVE, N.O.S. (2-Fluoro-3-(trifluoromethyl)benzylamine) Ĩ<u>MDG, IATA</u> Transport hazard class(es) DOT 8 Corrosive substances. Class Label Class (C7) Corrosive substances 8 Label ĪMĎĠ, IATA 8 Corrosive substances Class Label Packing group DOT, IMDG, IATA 11 Environmental hazards: Not applicable. Warning: Corrosive substances F-A,S-B Special precautions for user EMS Number: Segregation groups Alkális Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT). No UN "Model Regulation": UN2735, Amines, liquid, corrosive, n.o.s. (2-Fluoro-3-(trifluoromethyl)benzylamine), 8, IĪ 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS05 Signal word Danger Hazard statements H227 Combustible liquid. H314 Causes severe skin burns and eye damage. Precautionary statements Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. P501 market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination 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 / -

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 Abbreviations and acronyms:

 RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

 ICAO: International Civil Aviation Organization

 ICAO: Trechnical Instructions by the "International Civil Aviation Organization" (ICAO)

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 IMDG: International Air Transport Association

 IATA: International Air Transport Association

 CAO: Trensportation

 IATA: International Air Transportation

 IATA: International Air Transportation

 IATA: International Air Transport Association

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 HMIS: Hazardous Materials Identification System (USA)

 WHMIS: Workplace Hazardous Materials Information System (Canada)

 LC50: Lethal concentration, 50 percent

 UPVB: very Persistent and very Bioaccumulative

 ACGHH: American Conference of Governmental Industrial Hygienists (USA)

 OSH: Occupational Safety and Health Administration (USA)

 NTP: National Toxicology Program (USA)

 MAC: International Protection Agency (USA)