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1 Identification	
Product identifier	
Product name: 5-Fluoro-2-(trifluoromethyl)benzylamine	
Stock number: H26751 CAS Number:	
231291-14-8 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa 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) 9	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.	
Eye Dam. 1 H318 Causes serious eye damage. 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	
H314 Causes severe skin burns and eye damage. Precautionary statements	
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 ri P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue ris	nsing.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2B - Toxic material causing other toxic effects	
E - Corrosive material	
$\square$	
Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System)	
HEALTH     2       Health     (acute effects) = 2       FRE     1       Flammability = 1	
REACTIVITY I Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 231291-14-8 5-Fluoro-2-(trifluoromethyl)benzylamine	
4 First-aid measures	
Description of first aid measures	
General information Immediately remove any clothing soiled by the product. After inhalation	
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 immédiate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	(Contd. on page 2

(Contd. of page 1)

### Product name: 5-Fluoro-2-(trifluoromethyl)benzylamine

Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns.

Causes serious eve damage

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) Nitrogen oxides (NOx) 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). Use neutralizing agent. 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 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 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: 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. Store away from air. Further information about storage conditions: Store under 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 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 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 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. 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. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Odor: Not determined (Contd. on page 3)

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roduct name: 5-Fluoro-2-(trifluoron	nethyl)benzylamine
	(Contd. of page 2
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined
Sublimation temperature / start:	Not determined
Flash point: Flammability (solid, gaseous)	Not determined
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined
Decomposition temperature: Auto igniting:	Not determined Not determined.
	Not determined. Product does not present an explosion hazard.
Danger of explosion: Explosion limits:	
Lower: Upper:	Not determined Not determined
Vapor pressure:	Not determined
Density: Relative density	Not determined Not determined.
Vapor density	Not determined.
Evaporation rate Solubility in / Miscibility with	Not determined.
Water:	Not determined
Partition coefficient (n-octanol/water): Viscosity:	
dynamic: kinematic:	Not determined. Not determined.
Kinematic: Other information	Not determined. No further relevant information available.
0 Stability and reactivity	
Reactivity No information known. Chemical stability Stable under recomm	mandad starsas conditions
Thermal decomposition / conditions to	mended storage conditions. <b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions No Conditions to avoid No further relevant	o dangerous reactions known
Incompatible materials:	Information available.
Air Oxidizing agents	
Hazardous decomposition products:	
Carbon monoxide and carbon dioxide Hydrogen fluoride	
Nitrogen oxides	
1 Toxicological information	
Information on toxicological effects	
Acute toxicity: Swallowing will lead to a	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 cl Skin irritation or corrosion: Causes se	classification: No data
Eye irritation or corrosion: Causes seri	rious eve damage.
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	
Carcinogenicity: No classification data of	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 -	In.
Specific target organ system toxicity -	- single exposure: No effects known.
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect.	ts known.
Additional toxicological information: 7	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
2 Ecological information	
Z Ecological information Toxicity	
Aquatic toxicity: No further relevant info	ormation available.
Persistence and degradability No furthe Bioaccumulative potential No further re	her relevant information available.
Mobility in soil No further relevant inform	mation available.
Additional ecological information: General notes:	
Do not allow material to be released to th	he environment without proper governmental permits.
Do not allow undiluted product or large q Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	t
PBT: Not applicable. vPvB: Not applicable.	
Other adverse effects No further releval	Int information available.
3 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local of	or national regulations to ensure proper disposal.
Uncleaned packagings: Recommendation: Disposal must be ma	
4 Transport information	
UN-Number DOT, IMDG, IATA	UN2735
UN proper shipping name	UINZ / 33
DOT	Amines, liquid, corrosive, n.o.s. (5-Fluoro-2-(trifluoromethyl)benzylamine)
	(Contd. on page

(Contd. on page 4)

# Product name: 5-Fluoro-2-(trifluoromethyl)benzylamine (Contd. of page 3) IMDG, IATA AMINES, LIQUID, CORROSIVE, N.O.S. (5-Fluoro-2-(trifluoromethyl)benzylamine) Transport hazard class(es) DOT Class 8 Corrosive substances. I abel 8 (C7) Corrosive substances Class Label IMDG, IATA Class 8 Corrosive substances. I abel Packing group DOT, IMDG, IATA 111 Environmental hazards: Not applicable. Special precautions for user Segregation groups Warning: Corrosive substances Alkalis 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. (5-Fluoro-2-(trifluoromethyl)benzylamine), 8, III 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 H314 Causes severe skin burns and eye damage. Precautionary statements Precautionary statements 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. P301+P30+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. 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. 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 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 male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations. limitations and prohibitive regulations National regulations 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 reduces over the charged and annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the 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 Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and accomyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IA1A-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICA0: International Civil Aviation Organization ICA0-TI: Technical Instructions by the "International Civil Aviation Organization" (ICA0) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDE: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association 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 LD50: Lethal dose, 50 percent VP/B: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) (Contd. on page 5)

# Product name: 5-Fluoro-2-(trifluoromethyl)benzylamine

OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/24/2015 Reviewed on 11/29/2007

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