



	vea on 01/25/2010
1 Identification	
Product identifier	
Product name: 2-Chloro-5-(trifluoromethyl)benzylamine	
Stock number: B24449, L19228 CAS Number:	
15996-78-8 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> 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	
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. 1C H314 Causes severe skin burns and eye damage.	
Eye Dam. 1 H318 Causes serious eye damage. <b>Hazards not otherwise classified</b> 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	
P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	a
P309 IF exposed or if you feel unwell:	y.
WHMIS classification	
D2B - Toxic material causing other toxic effects E - Corrosive material	
$\mathcal{T}$	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH       2         HEALTH       2         FIRE       1         Flammability = 1	
REACTIVITY Physical Házard = 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: 15996-78-8 2-Chloro-5-(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 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	
Causes severe skin burns. Causes severa skin burns.	
ourooo oonono oyo uumayo.	(Contd. on page 2)

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

Indication of any immediate medical attention and special treatment needed No further relevant information available.	(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) Hydrogen chloride (HCI) Nitrogen oxides (NOX) Possibly Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
<ul> <li>6 Accidental release measures</li> <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 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: Keep away from ignition sources.         Reference to other sections         See Section 7 for information on personal protection equipment.         See Section 13 for disposal information.     </li> </ul>	
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. Store ause(s) No further relevant information available.	
<ul> <li>8 Exposure controls/personal protection</li> <li>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.</li> <li>Control parameters</li> <li>Components with limit values that require monitoring at the workplace: Not required.</li> <li>Additional information: No data</li> <li>Exposure controls</li> <li>Personal protective equipment</li> <li>General protective and hygienic measures</li> <li>The usual precautionary measures for handling chemicals should be followed.</li> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Remove all solied and contaminated clothing immediately.</li> <li>Wash hands before breaks and at the end of work.</li> <li>Avoid contact with the eyes and skin.</li> <li>Maintain an ergonomically appropriate working environment.</li> <li>Breating equipment: Use suitable respirator when high concentrations are present.</li> <li>Protection of hands: Impervious gloves prior to each use for their proper condition.</li> <li>The selection of suitable gloves not only depends on the material, but also on quality.</li> <li>Quality will vary from manufacturer to manufacturer.</li> <li>Eye protection:</li> <li>Trafhily sealed goggles</li> <li>Full face protection:</li> <li>Protection: Protective work clothing.</li> </ul>	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Colorless Odor: Amine-like Odor threshold: Not determined.	(Contd. on page 3)

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

I

Product name: 2-Chloro-5-(trifluoron	nethyl)benzylamine	
		(Contd. of page 2)
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 90-94 °C (194-201 °F) (13mm Hg) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	100 °C (212 °F) Not determined. Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower:	Product does not present an explosion hazard. Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density: Relative density Vener density	Not determined Not determined	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Not miscible or difficult to mix Not determined.	
Viscosity: dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Air Carbon dioxide Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Hydrogen chloride (HCI) Nitrogen oxides Possibly Hydrogen cyanide (HCN)	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.	
Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data Reproductive toxicity: No effects know Specific tarreet organ system toxicity.	rious eye damage. own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n.	
Avoid transfer into the environment. <b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable.	mation available. he environment without proper governmental permits.	
vPvB: Not applicable. Other adverse effects No further releva	ant information available.	
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.	
4 Transport information		
UN-Number		
DOT, ÎMDĞ, IATA	UN2735	(Contd. on page 4)
		USA

## Product name: 2-Chloro-5-(trifluoromethyl)benzylamine (Contd. of page 3) UN proper shipping name DOT Amines, liquid, corrosive, n.o.s. (2-Chloro-5-(trifluoromethyl)benzylamine) AMINES, LIQUID, CORROSIVE, N.O.S. (2-Chloro-5-(trifluoromethyl)benzylamine) IMDG, IATA Transport hazard class(es) DOT Class 8 Corrosive substances. Label Class 8 (C7) Corrosive substances Label IMDG, IATA Class 8 Corrosive substances. Label Packing group DOT, IMDG, IATA 111 Environmental hazards: Not applicable. Special precautions for user Warning: Corrosive substances F-A,S-B EMS Number Alkalis Segregation groups 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-Chloro-5-(trifluoromethyl)benzylamine), 8. 111 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 P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 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. National regulations 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. 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 / Abbreviations and acronyms: RID: Reglement 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 Civil Aviation Organization ICAO: International Civil Aviation Organization ICAO: The chinical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMINS: Hazardous Materials Information System (USA) WHMINS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent (Contd. on page 5)

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

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) Page 5/5 Printing date 11/24/2015 Reviewed on 01/25/2010

(Contd. of page 4)

USA -