

Safety Data Sheet per OSHA HazCom 2012

Neviewed 01/02/11/2014
1 Identification
Product identifier Product name: 4-(Trifluoromethyl)benzylamine
Stock number: B22745, L12873 CAS Number: 3300-51-4
EC number: 221-971-9 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: 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) 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.
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/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 HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 3 FIRE 2 REACTIVITY 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: 3300-51-4 4-(Trifluoromethyl)benzylamine Identification number(s): EC number: 221-971-9
4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation Supply feeds of it if required provide artificial respiration. Keen patient warm
Supply fresh air. If required, provide artificial respiration. Keep patient warm. (Contd. on page 2) USA

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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 serious eye damage. 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) Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	1.
 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 product to reach sewage system or any water course. 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. 	
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 air. Do not store together with acids. Store away from oxidizing agents. 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 in cool, dry conditions in well sealed containers. Store and 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: 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 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. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Uses 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. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Tightly sealed goggles	
Full face protection	(Contd. on page 3) USA —

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Body protection: Protective work clothi	ng. (Contd. of page 2)			
9 Physical and chemical properties				
Information on basic physical and cho General Information Appearance:	emical properties			
Form: Color: Odor:	Liquid Colorless to pale yellow Not determined			
Odor threshold: pH-value:	Not determined. Not determined.			
Change in condition				
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 80-82 °C (176-180 °F) (15mm) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	75 °C (167 °F) Not determined Not determined Not determined Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Not determined Not determined 1.229 g/cm³ (10.256 lbs/gal) Not determined. Not determined. Not determined.			
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water). Viscosity:	Not miscible or difficult to mix			
dynamic: kinematic:	Not determined. Not determined.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known. Chemical stability Stable under recomi	o be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents			
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. Eye irritation or corrosion: Causes severe skin burns. Eye irritation: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: No effects known.				
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant inf	ormation available.			

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: 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 or national regulations to ensure proper disposal.

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Uncleaned packagings:

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Uncleaned packagings: Recommendation: Disposal must be made according to c	official regulations.
4 Transport information	
UN-Number DOT, IMDG, IATA	UN2735
UN proper shipping name	
DOT INTERNIT	Amines, liquid, corrosive, n.o.s. (4-(Trifluoromethyl)benzylamine) AMINES, LIQUID, CORROSIVE, N.O.S. (4-(Trifluoromethyl)benzylamine)
Transport hazard class(es) DOT	
Class	8 Corrosive substances.
Label Class	8 8 (C7) Corrosive substances
Label IMDG, IATA	8
Class Label	8 Corrosive substances. 8
Packing group DOT, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Corrosive substances F-A,S-B
Segregation groups	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. (4-(Trifluoromethyl)benzylamine), 8, III
Safety, health and environmental regulations/legislatio GHS label elements The product is classified and labeled Hazard pictograms GHS05	in accordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container in accord National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be uproduct must not be used for commercial purposes or in fo This product is not listed on the Canadian Domestic Substi SARA Section 313 (specific toxic chemical listings) Sui California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance 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, termale 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. Other regulations. limitations and prohibitive regulation	ances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). bstance is not listed. - not listed. t listed. Inically qualified individuals. ns the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Ind Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the prisation for use) Substance is not listed.
6 Other information Employers should use this information only as a suppleme, information to ensure proper use and protect the health an conformance with this Material Safety Data Sheet, or in co Department issuing SDS: Global Marketing Department	nt to other information gathered by them, and should make independent judgement of suitability of this d safety of employees. This information is furnished without warranty, and any use of the product not in mbination with any other product or process, is the responsibility of the user.
Date of preparation / last revision 11/23/2015 / -	

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 Abbreviations and acronyms:

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

 IMDG: International Maritime Code for Dangerous Goods

 DOT: US Department of Transport dassociation

 ITAL: International Air Transport Association

 EINECS: European Inventory of Existing Commercial Chemical Substances

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

 HMIN: Hazardous Materials Identification System (USA)

 WHMIS: Workplace Hazardous Materials Information System (Canada)

 LC50: Lethal concentration, 50 percent

 LD50: Lethal concentration, 50 percent

 LD50: Evental dose, 50 percent

 VPW 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)

 IAR: International Agency for Research on Cancer

 EPA: Environmental Protection Agency (USA)

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USA