



1 Identification Product identifier Product identifier Product name: <u>1-(2-Bromoethyl)-3-(trifluoromethyl)benzene</u> Stock number: 1997-80-4 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 Te: 800-332-960 Fax: 800-332-960 Fax: 800-332-967 Email: tech @alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-Tpm 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) GHS07 Acute Tox. 4 H302 Harmful if swallowed. Eye Intri. 2A H319 Causes serious eye intriation.
Product name: 1-(2-Bromoethyl)-3-(trifluoromethyl)benzene Stock number: H64601 CAS Number: 1997-80-4 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 01335-8099 Te:: 800-332-4767 Email: ech@alfa.com www.alfa.com www.alfa.com 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) Image: GHS07 Acute Tox. 4 H302 Harmful if swallowed.
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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
GHS07
Signal word Warning Hazard statements
H302 Harmful if swallowed.
H319 Causes serious eye irritation. Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling.
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+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D2B - Toxic material causing other toxic effects
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTHIPREIFlammability = 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:
1997-80-4 1-(2-Bromoethyl)-3-(trifluoromethyl)benzene
4 First-aid measures
Description of first aid measures 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 No further relevant information available. (Contd. on page
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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) Hydrogen bromide (HBr) 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 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). 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 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 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

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 soiled 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. Avoid contact with the eyes and skin

Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present.

Breatning 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. 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.

9 Physical and chemical properties

Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Liquid Colorless Not determined Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous)	Not determined 92-94 °C (198-201 °F) (12mm) Not determined Not determined.

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Ignition temperature: Not	determined (Contd. of page 2
Decomposition temperature: Not	determined
	determined.
Danger of explosion: Not Explosion limits:	determined.
Lower: Not	determined
Upper: Not	determined
Vapor pressure: Not Density at 20 °C (68 °F): 1.49	determined 15 g/cm³ (12.476 lbs/gal)
Relative density Not	determined.
Vapor density Not Evaporation rate Not	determined. determined.
Solubility in / Miscibility with	uerennineu.
Water: Not	determined
Partition coefficient (n-octanol/water): Not Viscosity:	aeterminea.
dynamic: Not	determined.
kinematic: Not Other information No f	determined. iurther relevant information available.
0 Stability and reactivity	
Reactivity No information known	
Chemical stability Stable under recommend	ed storage conditions. avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions Reacts	avolaed: Decomposition will not occur if used and stored according to specifications. with strong gyidizing agents
Conditions to avoid No further relevant infor	mation available.
Incompatible materials: Oxidizing agents	
Hazardous decomposition products: Carbon monoxide and carbon dioxide	
Hydrogen fluoride Hydrogen bromide	
nyarogen bronnae	
1 Toxicological information	
Information on toxicological effects	
Acute toxicity: Harmful if swallowed.	
LD/LC50 values that are relevant for classi Skin irritation or corrosion: May cause irrita	
Eye irritation or corrosion: Causes serious	eye irritation.
Sensitization: No sensitizing effects known.	
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on ca	arcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects known.	
Specific target organ system toxicity - repo	ated exposure: No effects known.
Specific target organ system toxicity - sing Aspiration hazard: No effects known.	
Subacute to chronic toxicity: No effects kno Additional toxicological information: To the	own. e best of our knowledge the acute and chronic toxicity of this substance is not fully known.
2 Ecological information	
Toxicity	tion available
Aquatic toxicity: No further relevant informal Persistence and degradability No further re Bioaccumulative potential No further releva	levant information available.
Bioaccumulative potential No further releva Mobility in soil No further relevant information	nt information available.
Additional ecological information:	
General notes:	
Do not allow product to reach ground water, v	vater course or sewade system
Danger to drinking water if even small quantit	ies leak into the ground.
Do not allow product to reach ground water, v Danger to drinking water if even small quantit Also poisonous for fish and plankton in water	iss leak into the ground. bodies.
Also poisonous for fish and plankton in water Toxic to aquatic life.	bodies.
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Product name: 1-(2-Bromoethyl)-3-(trifluoromethyl)benzene (Contd. of page 3) Transport hazard class(es) DOT, IMDG мŀ Class Label 9 Miscellaneous dangerous substances and articles. Class (M6) Miscellaneous dangerous substances and articles Label IATA đЬ Class 9 Miscellaneous dangerous substances and articles. Label Packing group DOT, IMDG, IATA III Environmental hazards: Special marking (ADR) Symbol (fish and tree) Special marking (IATA): Symbol (fish and tree) Special precautions for user Warning: Miscellaneous dangerous substances and articles 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": UN3082, Environmentally hazardous substances, liquid, n.o.s. (1-(2-Bromoethyl)-3-(trifluoromethyl)benzene), 9, 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 GHS07 Signal word Warning Hazard statements H302 Harmful if swallowed. H319 Causes serious eye irritation. Precautionary statements P280 P264 Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P318 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P313 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell. P307+P313 If eye irritation persists: Get medical advice/attention. 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. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). 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 substance is not listed. Prop 65 - Developmental toxicity substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. 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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 11/23/2015 / -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) IMDC: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Mastracts 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 concentration, 50 percent USD: 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) Department issuing SDS: Global Marketing Department (Contd. on page 5)

Product name: 1-(2-Bromoethyl)-3-(trifluoromethyl)benzene

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/23/2015 Reviewed on 12/13/2013

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