

# Safety Data Sheet per OSHA HazCom 2012

	2011
1 Identification	
Product identifier Product name: <b>5-Bromo-2-(trifluoromethoxy)aniline</b>	
Stock number: H61663	
CAS Number: 1010003 886762-08-9	
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	
Ward Hill, MA 01835-8099 Tel: 800-343-0660	
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.	
	$\dashv$
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. Acute Tox. 4 H312 Harmful in contact with skin.	
Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. 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	
$\langle \hat{\mathbf{t}} \rangle$	
GHS07	
Signal word Warning	
Hăzard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P388 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D1B - Toxic material causing immediate and serious toxic effects	
D2B - Toxic material causing other toxic effects	
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Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2	
Fire     I     Flammability = 1     `       REACTIVITY1     Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
	$\dashv$
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 886762-08-9 5-Bromo-2-(trifluoromethoxy)aniline	
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. (Contd. on p	age 2)
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## Product name: 5-Bromo-2-(trifluoromethoxy)aniline

After skin contact	(Contd. of page 1)
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. 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 a first the following rescale	
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen fluoride (HE)	
Hydrogen fluoride (HF) Nitrogen oxides (NOx) 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. Ensuine adoquate ventilation	
Ensure adequate ventilation <b>Environmental precautions:</b> Do not allow product to reach sewage system or any water course. <b>Methods and material for containment and cleaning up:</b>	
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 / 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.	
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.	
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters	
<b>Components with limit values that require monitoring at the workplace:</b> 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	
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 and skin. Maintain an ergonomically appropriate working environment.	
<b>Breatning equipment:</b> Use suitable respirator when high concentrations are present. <b>Recommended filter device for short term use:</b>	
Use a respirator with organic vapor/acid gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EL <b>Protection of hands:</b>	air-puritying I).
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. Eye protection: Safety glasses	
Body protection: Protective work clothing.	
9 Physical and chemical properties Information on basic physical and chemical properties	
General Information	
Form: Liquid Color: Brown	
	(Contd. on page 3) USA

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#### Product name: 5-Bromo-2-(trifluoromethoxy)aniline

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	(Contd. o	f page 2)
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start:	Not determined	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not determined	
Density:	Not determined	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water):		
Viscosity:	not determined.	
dynamic:	Not determined.	
kinematic:	Not determined.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recomm	nended storage conditions.	
Thermal decomposition / conditions to	o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Rea	acts with strong oxidizing agents	

Possibility of hazardous reactions Reacts with strong oxidizi Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Hydrogen bromide ng agents

#### 11 Toxicological information

Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: 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: May cause respiratory irritation. 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. Information on toxicological effects 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 undiluted product or large quantities to reach ground water, water course or sewage system. 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. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

UN-Number DOT, IMDG, IATA

UN2810

(Contd. on page 4)

	Reviewed on 11/12/20
oduct name: 5-Bromo-2-(trifluoromethoxy)aniline	
	(Contd. of page
UN proper shipping name DOT	Toxic, liquids, organic, n.o.s. (5-Bromo-2-(trifluoromethoxy)aniline)
IMDG, IATA	Toxic, liquids, organic, n.o.s. (5-Bromo-2-(trifluoromethoxy)aniline) TOXIC LIQUID, ORGANIC, N.O.S. (5-Bromo-2-(trifluoromethoxy)aniline)
Transport hazard class(es) DOT	
×	
Class	6.1 Toxic substances.
Label Class	6.1 6.1 (T1) Toxic substances
Label IMDG, IATA	6.1
×	
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	
Environmental hazards:	III Not applicable.
Special precautions for user EMS Number:	Warning: Toxic substances
EMS Number: Transport in bulk according to Annex II of MARPOL73/78	F-A,S-Ă and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2810, Toxic, liquids, organic, n.o.s. (5-Bromo-2-(trifluoromethoxy)aniline), 6.1
Safety, health and environmental regulations/legislation s GHS label elements The product is classified and labeled in Hazard pictograms GHS07 Signal word Warning Hazard statements H302+H312+H332 H332 armful if swallowed, in contact with skin of H315 Causes skin irritation.	
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Hazard pictograms         GHS07         Signal word Warning         Hazard statements         H302+H312+H332 Harmful if swallowed, in contact with skin of         H315       Causes skin irritation.         H319       Causes skin irritation.         H319       Causes serious eye irritation.         H320+H312+H332 Harmful if swallowed, in contact with skin of         H319       Causes serious eye irritation.         H335       May cause respiratory irritation.         Precautionary statements       P261         P205       Avoid breathing dust/fume/gas/mist/vapou         P305+P351+P338 IF IN EYES: Rinse cautiously with water for         P304+P340       IF INHALED: Remove person to fresh air at         P405       Store locked up.         P501       Dispose of contents/container in accordan         National regulations       This product is not listed in the U.S. Environmental Protection         This product is not listed on the Canadian Domestic Substance       Substance         SARA Section 313 (specific toxic chemical listings) Substance       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, male Substance is not listed.       Prop 65 - Developmental tox	or if inhaled. //eye protection/face protection. //eye protection/face protection. or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing. //ece with local/regional/national/international regulations. // Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict // by or directly under the supervision of a technically qualified individual as defined by TSCA. This // ulations for commercial purposes. // ses List (DSL) or the Canadian Non-Domestic Substances List (NDSL). // ance is not listed. // ance is not listed. // anle individuals. // Annex XVII of the Regulation (EC) No. 1907/2006. Substance is not listed. // Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the supervision of a technical substance is not listed. // annex XVII of the Regulation (EC) No. 1907/2006. Substance is not listed.
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Safety Data Sheet per OSHA HazCom 2012

### Product name: 5-Bromo-2-(trifluoromethoxy)aniline

LD50: Lethal dose, 50 percent 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)

(Contd. of page 4)

USA