



	Reviewed on 01/24/2007
1 Identification	
Product identifier Product name: <b>2-Amino-6-(trifluoromethyl)benzothiazole</b>	
Stock number:	
777-12-8 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 (8	66) 928-0789.
2 Hazard(s) identification Cląssification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. <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	
GHS07	
Signal word Warning         Hazard statements         H315 Causes skin irritation.         H319 Causes serious eye 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.         P305+P331+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue P304+P340         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	ue rinsing.
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Classification system HMIS ratings (scale 0-4)	
Health (acute effects) = 1	
File     I       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: 777-12-8 2-Amino-6-(trifluoromethyl)benzothiazole	
4 First-aid measures	
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately work with water and seen and rings therewild.	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. <b>After eye contact</b> Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment.	(Contd. on page 2)
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Product name: 2-Ammo-o-(trinuorometh	iyi)benzotniazole			
Information for doctor Most important symptoms and effects, bot Indication of any immediate medical attent	th acute and delayed No further relevant information available. tion and special treatment needed No further relevant information available.	(Contd. of page 1)		
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxid Special hazards arising from the substance If this product is involved in a fire, the following Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen fluoride (HF) Sulfur oxides (SOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	ide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. <b>e or mixture</b> Ig can be released:			
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: 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 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 tech Properly operating chemical fume hood design Control parameters	n :hnical systems: ined for hazardous chemicals and having an average face velocity of at least 100 feet per minute.			
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 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. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eve protection: Safety glasses				
Body protection: Protective work clothing. 9 Physical and chemical properties				
Information on basic physical and chemica General Information Appearance: Form: Pow				
Odor threshold: Not	determined.			
Change in condition Melting point/Melting range: Not Boiling point/Boiling range: Not	applicable. determined determined determined			
Flammability (solid, gaseous) Not of Ignition temperature: Not of	applicable determined. determined determined			
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Auto impiting.	Not determined	(Contd. of page 2)	
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper: Vapor prossuro:	Not determined		
Vapor pressure: Density:	Not applicable. Not determined		
Relative density	Not determined.		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Not determined		
Partition coefficient (n-octanol/wate			
Viscosity:	Net and the first		
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Chemical stability Stable under reco	mmended storage conditions. <b>s to be avoided:</b> Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions	s to be avoided. Decomposition will not occur il used and stored according to specifications. No dangeruis reactions known		
Conditions to avoid No further releva	an information available.		
Incompatible materials: Oxidizing ag	gents		
Hazardous decomposition products Carbon monoxide and carbon dioxide	5:		
Nitroaen oxides			
Hydrogen fluoride			
Sulfur oxides (SOx)			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: No effects known.			
LD/LC50 values that are relevant for			
Skin irritation or corrosion: Causes	skin irritation.		
Eye irritation or corrosion: Causes s	serious eye irritation.		
Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects k			
Carcinogenicity: No classification dat	ta on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects kno	own.		
Specific target organ system toxicit	ty - repeated exposure: No effects known.		
Aspiration hazard: No effects known.	ty - single exposure: May cause respiratory irritation.		
Subacute to chronic toxicity: No effe			
Additional toxicological information	n: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
12 Ecological information			
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Toxicity Aquatic toxicity: No further relevant i	information available		
Persistence and degradability No fu	information available.		
Bioaccumulative potential No furthe Mobility in soil No further relevant inf	r relevant information available.		
Mobility in soil No further relevant inf	formation available.		
Additional ecological information: General notes:			
Do not allow material to be released to	o the environment without proper governmental permits.		
Do not allow undiluted product or large	e quantities to reach ground water, water course or sewage system.		
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. <b>Results of PBT and vPvB assessment</b>			
<b>PBT:</b> Not applicable.	501.		
vPvB: Not applicable.			
Other adverse effects No further rele	evant information available.		
13 Disposal considerations			
-			
Waste treatment methods Recommendation Consult state loca	al or national regulations to ensure proper disposal.		
Uncleaned packagings:			
Recommendation: Disposal must be	made according to official regulations.		
14 Transport information			
Not a hazardous material for transport	tation.		
UN-Number			
DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA	None		
Transport hazard class(es)			
DOT, ADR, IMDG, IATA			
Class	None		
Packing group DOT, IMDG, IATA			
	None		
Environmental hazards:	Not applicable.		
Special precautions for user	Not applicable.	(0	
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oduct name: 2-Amino-6-(trifluoromethyl)benzothiaz	ole
	(Contd. of page 3
Transport in bulk according to Annex II of MARPOL73/78 and	d the IBC Code Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
	110
5 Regulatory information Safety, health and environmental regulations/legislation spe GHS label elements The product is classified and labeled in acc Hazard pictograms	cific for the substance or mixture cordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P405 Store locked up. P501 Dispose of contents/container in accordance National regulations This product is not listed in the U.S. Environmental Protection Ag to research and development only. This product must be used by product must not be used for commercial purposes or in formular SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not 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 Information about limitation of use: For use only by technically Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the Ri	<ul> <li>di protection/face protection.</li> <li>di vereral minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>di keep comfortable for breathing.</li> <li>with local/regional/national/international regulations.</li> <li>gency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted y or directly under the supervision of a technically qualified individual as defined by TSCA. This tions for commercial purposes.</li> <li>ce is not listed.</li> <li>t listed.</li> <li>y qualified individuals.</li> <li>EACH Regulations (EC) No. 1907/2006. Substance is not listed.</li> <li>nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the</li> </ul>
information to ensure proper use and protect the health and safe	other information gathered by them, and should make independent judgement of suitability of this ety of employees. This information is furnished without warranty, and any use of the product not in tion 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: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concernation, 50 percent UDS0: Lethal cose, 50 percent VPWB: 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) NTP: National Toxicology Program (USA)	

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)