

## Safety Data Sheet per OSHA HazCom 2012

	ewed on 12/03/2013
1 Identification	
Product identifier Product name: 2-Amino-6-(trifluoromethoxy)benzothiazole	
Stock number: H61328 CAS Number:	
1744-22-5 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: <u>8</u> 00-322-4757	
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	8-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 2 H300 Fatal if swallowed.	
GHS07	
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 GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
<b>Signal word</b> Danger <b>Hazard statements</b> H300 Fatal if swallowed.	
H315 Causes skin irritation. H319 Causes serious eve 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.         P301+P310       IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsii P405 Store locked up.	ng.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects	
D2B - Toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)         IMEALTH I         HEALTH I       Health (acute effects) = 3	
Fire     I     Flammability = 1       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: 1744-22-5 2-Amino-6-(trifluoromethoxy)benzothiazole	
4 First-aid measures	
Description of first aid measures General information	
Immediately remove any clothing soiled by the product.	(Contd. on page 2)
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In case of irregular breathing or respiratory arrest provide artificial respiration. 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 Do not induce vomiting; immediately call for medical help. 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.	(Contd. of page 1)
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 foan 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 Sulfur oxides (SOX) 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: 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 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 Eye protection: Safety glasses Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance: Form: Solid Color: White to yellow	
	(Contd. on page 3)
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	(Contd. of	nage 2)		
Odor: Odor threshold:	Not determined Not determined.	page 2)		
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	114-118 °C (237-244 °F) Not determined Not determined Not determined. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Not determined Not determined Not applicable. Not determined Not determined. Not determined. Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Hydrogen fluoride Nitrogen oxides				
11 Toxicological information         Information on toxicological effects         Acute toxicity:         Fatal if swallowed.         The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.         LD/LC50 values that are relevant for classification:         Oral [LD50] 45 mg/kg (rat)         Skin irritation or corrosion: Causes skin irritation.         Eye irritation or corrosion: Causes serious eye irritation.         Sensitization: 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 - repeated exposure: May cause respiratory irritation.         Aspiration hazard: No effects known.         Specific target organ system toxicity - repeated exposure: May cause respiratory irritation.         Aspiration hazard: No effects known.         Specific target organ system toxicity - single exposure: May cause respiratory irritation.         Aspiration hazard: No effects known.         Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.				
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.  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. Other adverse effects No further relevant information available.				
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.			
14 Transport information				
UN-Number DOT, IMDG, IATA	UN2811			
	(Contd. on	page 4) USA		

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Product name: 2-Amino-6-(trifluoromethoxy)benzothiazole

IN proper chinning name	(Contd. of page 3)	
UN proper shipping name DOT	Toxic solids, organic, n.o.s. (2-Amino-6-(trifluoromethoxy)benzothiazole)	
IMDG, IATA	TOXIC SOLID, ORGANIC, N.O.S. (2-Amino-6-(trifluoromethoxy)benzothiazole)	
Transport hazard class(es) DOT		
Class	6 1 Taxia substances	
Class Label	6.1 Toxic substances. 6.1	
Class Label	6.1 (T2) Toxic substances 6.1	
ĪMDG, IATA		
$\bigvee$		
Class Label	6.1 Toxic substances. 6.1	
	0.7	
Packing group DOT, IMDG, IATA		
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	e Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (2-Amino-6-(trifluoromethoxy)benzothiazole),	
	6.1, II	
13 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         Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms         Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard statements         Image: Comparison of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard statements         Hazard statements         Hazard statements         Hazard statements         H319 Causes skini irritation.         H325 Causes skini irritation.         H326 Causes skini irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P261       Dispose of contents/container in accordance with local/regional/national/international regulations.         Mational regulations       This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use		
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: ADB: Acres department generated acresses of Review Part Acresment concerning the International Carriage of Departure Coords by Revel		
Date of preparation / rast revision / //25/2013 / - <b>Abbreviations and acronyms:</b> ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement IMDG: International Martime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)	, , , , , , , , , , , , , , , , , , ,	
,	(Contd. on page 5) USA	

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- L C50: Lethal concentration, 50 percent 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)

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