

Safety Data Sheet per OSHA HazCom 2012

Keviewea	l on 06/25/2009
1 Identification	
Product identifier Product name: 3,5-Bis(trifluoromethyl)phenyl isothiocyanate	
Stock number: B20206, L11038 CAS Number:	
23165-29-9 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) 928-078	39
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H331 Toxic if inhaled.	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. 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 GHS06	
Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin.	
H331 Toxic if inhaled. H314 Causes severe skin burns and eve damage.	
Precautionary statements 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. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
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 E - Corrosive material	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
File File REACTIVITY 1 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: 23165-29-9 3,5-Bis(trifluoromethyl)phenyl isothiocyanate	
	USA USA

(Contd. on page 2)

Product name: 3,5-Bis(trifluoromethyl)phenyl isothiocyanate

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4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product.	
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 Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. 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 Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Sulfur oxides (SOX)	
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 material to be released to the environment without proper governmental permits. 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: No special measures required. 	
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 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: 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. Store away from water/moisture.	
Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. Protect from humidity and water. 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: 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.	(Contd. on page 3) USA

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(Contd. of page 2) The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Tightly sealed goggles Full face protection

Body protection: Protective work clothing.

9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Colorless Odor: Odor threshold: Irritating Not determined pH-value: Not determined Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined 109-110 °C (228-230 °F) (35mm Hg) Sublimation temperature / start: Not determined 108 °C (226 °F Flash point: Flammability (solid, gaseous) Not determined Ignition temperature: Decomposition temperature: Not determined Not determined Auto igniting: Not determined Danger of explosion: Explosion limits: Product does not present an explosion hazard. Lower: Upper: Not determined Not determined Not determined Vapor pressure: Density at 20 °C (68 °F): Relative density 1.485 g/cm³ (12.392 lbs/gal) Not determined. Vapor density Evaporation rate Solubility in / Miscibility with Not determined Not determined. Water: Hydrolyzes Partition coefficient (n-octanol/water): Not determined. Viscositv: 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 recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions to be avoided. Decomposition Conditions to avoid No further relevant information available. Incompatible materials: Alcohols Amines Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Sulfur oxides (SOx) Hydrogen fluoride Hydrogen cyanide 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if inhaled. Harmful if swallowed. Danger through skin absorption. 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 Exin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. 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. Actional toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. 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.

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.

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Safety per OSH	Data	Sheet
per OSH/	A HazC	om 2012

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Additional ecological information: (Contd. of page 3) General notes: Do not allow material to be released to the environment without proper governmental permits. 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	UN2922		
UN proper shipping name			
DOT IMDG, IATA	Corrosive liquids, toxic, n.o.s. (3,5-Bis(trifluoromethyl)phenyl isothiocyanate) CORROSIVE LIQUID, TOXIC, N.O.S. (3,5-Bis(trifluoromethyl)phenyl isothiocyanate)		
Transport hazard class(es) DOT Class Label Class	8 Corrosive substances. 8+6.1 8 (CT1) Corrosive substances		
Label IMDG, IATA	8+6.1 ´ 8 Corrosive substances. 8+6.1		
Packing group DOT, IMDG, IATA			
DOT, IMDG, IATA Environmental hazards:	III Not applicable.		
Special precautions for user	Warning: Corrosive substances		
EMS Number: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	F-A,S-B le Not applicable		
Transport in burk according to Annex in or mark of 273/10 and the 100 ocd			
DOT Marine Pollutant (DOT):	Νο		
UN "Model Regulation":	UN2922, Corrosive liquids, toxic, n.o.s. (3,5-Bis(trifluoromethyl)phenyl isothiocyanate), 8 (6.1), 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 <i>with and the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)</i> Hazard pictograms <i>with and pictograms with and pictograms</i>			
Information about limitation of use: For use only by technically qualified indiv	viduals. (Contd. on page 5)		

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Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. 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. 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 11/24/2015 / Abbreviations and acronyms:
RiD: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritume Code for Dangerous Goods
DOT: US Department of Transport Association
(ICAO)
IADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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DOT: US Department of Transport Association
(ICAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
USDA
VFMUSE Very Persistent and very Bioaccumulative
ACGIH: American Abstractional Curve Bioaccumulative
ACGIH: American Abstractional Curve Bioaccumulative
ACGIH: American Aster and Letters (USA)
MF: National Toxicology Program
(USA)
IAFC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)