

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Broduct name: 5-Cvano-2-(trifluoromothyl)pyriding
Product name: 5-Cyano-2-(trifluoromethyl)pyridine
Stock number: L20055 CAS Number:
216431-85-5 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 Eisber Scientific Chemicals, Inc
30 Bond Street Ward Hill MA 01835-8009
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.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS06 Skull and crossbones
\sim
Acute Tox. 3 H331 Toxic if inhaled.
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin. 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
GHS06
Signal word Danger Hazard statements
H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic 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+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305+P351+P338 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. 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
Classification system HMIS ratings (scale 0-4)
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH 2 Health (acute effects) = 2 FIRE 1 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: 216431-85-5 5-Cyano-2-(trifluoromethyl)pyridine
US (Contd. on pag

(Contd. of page 1) 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 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. 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) Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. Extinguishing media 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation 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: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary based to be according to according to the environment without proper governmental permits. 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: 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 Eye protection: Safety glasses Body protection: Protective work clothing. Exposure controls 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid (Contd. on page 3)

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Calam	(Contd. of p			
Color: Odor:	White Not determined			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition				
Melting point/Melting range:	37-40 °C (99-104 °F)			
Boiling point/Boiling range:	Not determined			
Sublimation temperature / start:	Not determined			
Flammability (solid, gaseous)	Not determined.			
Ignition temperature: Decomposition temperature:	Not determined			
Auto igniting:	Not determined Not determined.			
	Product does not present an explosion hazard.			
Danger of explosion: Explosion limits:	Frouce does not present an explosion nazard.			
Lower:	Not determined			
Upper:	Not determined			
Vapor pressure:	Not applicable. Not determined			
Density: Relative density	Not determined Not determined.			
Vapor density	Not determined. Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with				
Water:				
Partition coefficient (n-octanol/water Viscosity:	r): Not determined.			
dynamic:	Not applicable.			
kinematic:	Not applicable.			
Other information	No further relevant information available.			
0 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recon	nmended storage conditions.			
Thermal decomposition / conditions	nmended storage conditions. • to be avoided: Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions N	lo dangerous reactions known			
Possibility of hazardous reactions N Conditions to avoid No further releva	Int information available.			
Incompatible materials: Oxidizing age	ents			
Hazardous decomposition products				
Carbon monoxide and carbon dioxide				
Hydrogen fluoride Nitrogen oxides				
Hydrogen cyanide				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity:				
Harmful in contact with skin.				
Harmful if swallowed.				
Toxic if inhaled.				
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.				
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 farget 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.				
Subacute to chronic toxicity: No eπe	2015 KNOWN. • To the best of our knowledge the acute and chronic toxicity of this substance is not fully known			
Additional toxicological information	. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
2 Ecological information				
Toxicity				
Aquatic toxicity: No further relevant information available.				
Persistence and degradability No further relevant information available.				
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.				
Modulity in soli No further relevant information available				
Additional ecological information: General notes:				
Do not allow material to be released to	the environment without proper governmental permits.			
Do not allow undiluted product or large	e quantities to reach ground water, water course or sewage system.			
Avoid transfer into the environment.				
Results of PRT and vPvR assessme	nt			
PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.				
Other adverse effects No further relev	vant information available			
3 Disposal considerations				
13 Disposal considerations Waste treatment methods				

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.

USA (Contd. on page 4)

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Product name: 5-Cyano-2-(trifluoromethyl)pyridine

(Contd. of page 3)

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. 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, specific toxic, male 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 qualified individuals. Other regulations, limitations and prohibitive regulations Substance is not listed. The conditions of restrictions according to the REACH Regulations (EC) No. 1907/2006, Substance is not listed. The conditions of restrictions according to there of and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on 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 only as a supplement to other information is furnished without warranty, and any use of the product not 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 Canner (ArA) (An. The Sheet and Anner XVII of the frequencing Authorisation for use proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not conformance with this Material Safety Data		(Contd. of page 3)		
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Image: Construction of the substance of the	,			
Class 6.1 Toxic substances. Pocking rown N DOT, MIDG, INT N				
Label				
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Labor 6.1 Class 6.1 Class <th>Label</th> <th>6.1</th>	Label	6.1		
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Label 6.1 Packing group DOT, MDC, NLDC, NLDCC, NLDC,				
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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 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 dangreuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DBCR: Dangerous Goods by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: It: Technical Instructions by the "International Civil Aviation Organization" (ICAO)	Signal word Danger H302+H312 Harmful if swallowed or in contact with skin. H301 Toxic if inhaled. H315 Causes skin irritation. H316 Causes serious eye irritation. H317 Causes serious eye irritation. H318 Causes serious eye irritation. H319 Causes serious eye irritation. H317 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P304+P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P30 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. Mational 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 restrict 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. SARA Section 313 (specific toxic chemical listings) Subst			
	Annex XIV of the REACH Regulations (requiring Authorisation for use) Su Chemical safety assessment: A Chemical Safety Assessment has not been of the other information Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employee conformance with this Material Safety Data Sheet, or in combination with any of Department issuing SDS: Global Marketing Department Date of preparation (last revision 11/24/2015/-	n gathered by them, and should make independent judgement of suitability of this is. This information is furnished without warranty, and any use of the product not in ther product or process, is the responsibility of the user. (Regulations Concerning the International Transport of Dangerous Goods by Rail)		
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(Contd. of page 4)

USA

Product name: 5-Cyano-2-(trifluoromethyl)pyridine

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association (ATA: International Air Transport Association CAS: Chemical Abstracts 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 USD: 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)