



Page 1/5 Printing date 05/09/2017 Revision date 05/08/2017 Version 2

1 Identification	
Product identifier	
Product name: 6-Cyanonicotinic acid	
Stock number: L17127	
CAS Number: 70165-31-0	
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	
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
	0700.
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 H301 Toxic 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 The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
Signal word Danger	
Hazard statements H301 Toxic if swallowed.	
H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/sprav	
P280 Wear protective gloves / eye protection / face protection.	
P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves / 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 rinsing.	
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	
DIB - Toxic material causing inimediate and serious toxic enects D2B - Toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 2	
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: 70165-31-0 6-Cyanonicotinic acid	
Concentration: ≤100%	
4 First-aid measures	
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
	(Contd. on page 2)

Product name: 6-Cyanonicotinic acid

(Contd. of page 1) Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. 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 skin irritation. Causes serious eye irritation. Toxic if swallowed. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures *Extinguishing 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 cyanide (HCN) Nitrogen oxides (NOx) 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: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. 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. **Protective Action Criteria for Chemicals PAC-1:** Substance is not listed. **PAC-3:** Substance is not listed. 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 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. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves 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 with side shields / NIOSH (US) or EN 166(EU) (Contd. on page 3)

(Contd. of page 2)

Product name: 6-Cyanonicotinic acid

Body protection: Protective work clothing.

Body protection: Protective work clothing	ng.	(contar of page 2)	
9 Physical and chemical properties			
Information on basic physical and che General Information Appearance: Form:	emical properties Powder		
Odor: Odor threshold:	Odorless Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	189-194 °C (372-381 °F) Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable 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:	Not applicable.		
kinematic: Other information	Not applicable. 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 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 Nitrogen oxides Hydrogen cyanide			
11 Toxicological information			
Information on toxicological effects Acute toxicity: Toxic if swallowed. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Irritating effect. Eye irritation or corrosion: Irritating effect. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: 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. 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. 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 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	or national regulations to ensure proper disposal.	(Contd. on page 4)	

Product name: 6-Cyanonicotinic acid

	(Contd. of page 3)
Uncleaned packagings: Recommendation: Disposal must be made accordi	
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	
DOT, ADR, IMDG, IATA Environmental hazards:	Not applicable Not applicable.
Special precautions for user	Not applicable.
Stowage Category Transport in bulk according to Annex II of MARP	POL73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
15 Regulatory information	
Hazard pictograms GHS06 Signal word Danger Hazard statements H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/m P280 Wear protective gloves / eye prot P301+P310 IF SWALLOWED: Immediately ca P305+P351+P388 If in eyes: Rinse cautiously with w P405 Store locked up. P501 Dispose of contents/container in a National regulations	nist/vapors/spray nist/vapors/spray ntection / face protection. rall a POISON CENTER/ doctor. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SARA Section 313 (specific toxic chemical listing California Proposition 65 Prop 65 - Chemicals known to cause cancer Subs Prop 65 - Developmental toxicity Substance is not Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity male Substance	stance is not listed. t listed. nce is not listed. e is not listed. by technically qualified individuals. gulations ling to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ste 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
information to ensure proper use and protect the hea conformance with this Safety Data Sheet, or in comb Department issuing SDS: Global Marketing Depart	oplement to other information gathered by them, and should make independent judgement of suitability of this alth and safety of employees. This information is furnished without warranty, and any use of the product not in bination with any other product or process, is the responsibility of the user. "tment
Date of preparation/Revision: Print date, revision of Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandis IATA-DGR: Dangerous Goods Regulations by the "International Air Tr ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation ICAS: Chemical Abstracts Service (division of the American Chemical HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canaa LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists COLA: Corcursional Sefut and Health Administration (USA)	date and version number are in the header of each page. ises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Transport Association" (ICAO) rganisation" (ICAO) ses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) il Society) da) (Contd. on page 5)
OSHA: Occupational Safety and Health Administration (USA)	(Contd. on page 5) USA

Product name: 6-Cyanonicotinic acid

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 24: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Page 5/5 Printing date 05/09/2017 Revision date 05/08/2017 Version 2

(Contd. of page 4)

USA