

# Safety Data Sheet per OSHA HazCom 2012

Revie	wed on 02/10/2014
1 Identification	
Product identifier Product name: <b>5-Methylpyridine-2-carbonitrile</b>	
Stock number: H64539	
<b>CAS Number:</b> 1620-77-5	
<b>EC number:</b> 216-589-4	
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	-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. 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 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.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up.	ıg.
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	
$\odot$	
Classification system HMIS ratings (scale 0-4) (Hetwise Jon Mittings (scale 0-4)	
(Hazardouš Materials Identification System)	
FIRE     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:	
1620-77-5 5-Methylpyridine-2-carbonitrile	(Contd. on page 2)
	USA USA

Product name: 5-Methylpyridine-2-carbonitrile

Identification number(s): EC number: 216-589-4

### 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 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

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 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. 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 *Recautions for sale nanoung* 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

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:

Protection of hands: Impervious gloves

The periods groves 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.

(Contd. of page 1)

USA

Product name: 5-Methylpyridine-2-carbonitrile

(Contd of page 2)

		(Contd. of page 2)	
9 Physical and chemical properties			
Information on basic physical and chemical properties General Information			
Appearance: Form: Oder:	Solid Not determined		
Odor: Odor threshold:	Not determined.		
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:	72-75 °C (162-167 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density:	Not determined Not determined Not determined Not applicable. Not determined		
Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined. Not applicable. Not applicable.		
Partition coefficient (n-octanol/water) Viscosity:			
dynamic: kinematic: Other information	Not applicable. 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 Hydrogen cyanide Nitrogen oxides			
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful in contact with skin. Harmful in svallowed. 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. Germ cell mutagenicity: No effects known. Gerfic target organ system toxicity - repeated exposure: 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 leffects known. Subacute to chronic toxicity: No leffects known. Subacute to chronic toxicity: No heffects 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. vPvB: Not applicable. Other adverse effects No further relevant information available.			
13 Disposal considerations			
Uncleaned packagings:	or national regulations to ensure proper disposal.		
Recommendation: Disposal must be n	nade according to official regulations.		

USA (Contd. on page 4)

## Safety Data Sheet per OSHA HazCom 2012

### Product name: 5-Methylpyridine-2-carbonitrile

(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. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). 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 Substance is not listed. 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, the substance is not listed. Prop 65 - Developmental toxicity to be substance is not listed.		(Contd. of page 3)	
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UN "Model Regulation":         UN3439, Nitriles, solid, toxic, n.o.s. (5-Methylpyndine-2-carbonitrile), 6.1, III           15 Regulatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture of the product is classified and labeled in accordance with 29 CFR 1910 (OSFA HGS) Heard pictograms           Very Segue and Segue			
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<ul> <li>P201 Avoid breating gluss/index/gas/inits/vapours/spray.</li> <li>P200 Wear protective gloves/protective colining/eve protection/face protection.</li> <li>P305+P351+P330 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P304+P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Mational regulations</li> <li>This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted 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 is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).</li> <li>SARA Section 373 (specific toxic chemical listings) Substance is not listed.</li> <li>Prop 65 - Developmental toxicity Substance is not listed.</li> <li>Prop 65 - Developmental toxicity, female Substance is not listed.</li> <li>Prop 65 - Developmental toxicity, female Substance is not listed.</li> <li>Prop 65 - Developmental toxicity, female Substance is not listed.</li> <li>Prop 65 - Developmental toxicity, female Substance is not listed.</li> <li>Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.</li> <li>Substance is not listed.</li> <li>Annex XVI of the REACH Regulations (requiring Authorisation for use) Substance is not listed.</li> <li>Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</li> <li>16 Other info</li></ul>	Hazard pictograms GHS06 Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H331 Toxic if inhaled.		
<ul> <li>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.     </li> <li>Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:</li> <li>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</li> </ul>	P201       Avoid breakining dustrume/gas/mis/vapours/pray.         P203       Wear protective global mis/vapours/protective clobal mis/vapours/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.         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.         National 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 restricted 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 is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).         SARA Section 313 (specific toxic chemical listings) Substance is not listed.         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.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Dev		

### Product name: 5-Methylpyridine-2-carbonitrile

- IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances 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 LD50: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA