

Safety Data Sheet per OSHA HazCom 2012

Reviewed on 04/27/2010
1 Identification Product identifier
Product name: <u>3-Nitrobenzonitrile</u> Stock number: A15821, L03335 CAS Number:
619-24-9 EC number: 210-587-7
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
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 H301 Toxic if swallowed.
GHS07
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
GHS06
Signal word Danger Hazard statements H301 Toxic if swallowed. H312 Harmful in contact with skin. Precautionary statements P280 Wear protective gloves / protective clothing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/ P302+P352 IF ON SKIN: Wash with plenty of water/ WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH 2 Health (acute effects) = 2 FIRE 1 Flammability = 1 REACTIVIT 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: 619-24-9 3-Nitrobenzonitrile Identification number(s): EC number: 210-587-7
4 First-aid measures Description of first aid measures
General information Immediately remove any clothing soiled by the product. 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. (Contd. on page 2)

	Review	ved on 04/27/2010		
Product name: 3-Nitrobenzonitrile				
		(Contd. of page 1)		
After skin contact		(Conta: of page 1)		
Immediately wash with water and soap Seek immediate medical advice.	and rinse thoroughly.			
After eye contact Rinse opened eye for	or several minutes under running water. Then consult a doctor.			
After swallowing Do not induce vomitien Information for doctor	ng; immediately call for medical help.			
Most important symptoms and effect	ts, both acute and delayed Methemoglobinemia			
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	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.			
Special hazards arising from the sub If this product is involved in a fire, the fo	ollowing can be released:			
Carbon monoyide and carbon dioyide				
Hydrogen cyanide (HCN)				
Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment:				
wear self-contained respirator.				
Wear fully protective impervious suit.				
6 Accidental release measures				
Personal precautions, protective equ	ipment and emergency procedures			
Wear protective equipment. Keep unpro	ptected persons away.			
Environmental precautions: Do not a	llow material to be released to the environment without proper governmental permits.			
Prevention of secondary hazards: No	nt and cleaning up: Dispose of contaminated material as waste according to section 13.			
Reference to other sections				
See Section 7 for information on safe h See Section 8 for information on persor See Section 13 for disposal information	anduny nal 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.			
Store in cool, dry place in tightly closed Ensure good ventilation at the workplac	ie.			
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.				
Specific end use(s) No further relevan	t information available.			
8 Exposure controls/personal prot	tection			
Additional information about design	of technical systems:			
Properly operating chemical fume hood	l 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 mea	sures			
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 e Avoid contact with the eyes and skin.	end of work.			
Maintain an ergonomically appropriate	working environment.			
Breathing equipment: Use suitable rea Protection of hands:	spirator when high concentrations are present.			
Impervious aloves				
The selection of suitable gloves not only	se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Eye protection: Safety glasses Body protection: Protective work cloth				
••				
9 Physical and chemical properties				
Information on basic physical and ch General Information	nemical properties			
Appearance: Form:				
Form: Color:	Powder Pale yellow			
Odor:	Almond-like			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range:	114-117 °C (237-243 °F)			
Boiling point/Boiling range:	165 °C (329 °F) (21mm Hg)			
Sublimation temperature / start:	Not determined	(0, 1, 1, 1, 1, 1)		

(Contd. on page 3)

Product name: 3-Nitrobenzonitrile

	(Contd. of page 2			
Flash point:	Not applicable			
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined.			
Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined.			
Danger of explosion:	Product does not present an explosion hazard.			
Danger of explosion: Explosion limits:				
Lower:	Not determined Not determined			
Upper: Vapor pressure:				
Density:	Not applicable. Not determined			
Relative density	Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with				
Water: Partition apofficient (n actonol/water)	Insoluble Net determined			
Partition coefficient (n-octanol/water): Viscosity:	Not determined.			
dynamic:	Not applicable.			
kinematic:	Not applicable. No further relevant information available.			
Other information				
10 Stability and reactivity				
Reactivity No information known. Chemical stability Stable under recomn	nended storage conditions.			
Thermal decomposition / conditions to	> be avoided. Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions No	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.			
Incompatible materials: Oxidizing agen	nnonnauon avanable. ts			
Hazardous decomposition products: Carbon monoxide and carbon dioxide				
Carbon monoxide and carbon dioxide				
Nitrogen oxides Hydrogen cyanide				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: Harmful in contact with skin.				
Toxic if swallowed				
Danger through skin absorption.				
Danger through skin absorption. LD/LC50 values that are relevant for classification: No data				
Skin irritation or corrosion: May cause irritation Eve irritation or corrosion: May cause irritation				
Sensitization: No sensitizing effects known.				
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause 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.				
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known.				
Specific target organ system toxicity - single exposure: No effects known.				
Aspiration hazard: No effects known. Other information (about experimental toxicology): Mutagenic effects have been observed on tests with bacteria.				
Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Behavioral - somnolence (general depressed activity). Lungs, Thorax, or Respiration - cyanosis. Skip and Amendaces bais				
Lungs. Thorax. or Respiration - cvanosis				
Skin and Appendages - hair.	(after systemic exposure). formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly			
Skin and Appendages - dermatitis, other Absorption into the body may lead to the	(after systemic exposure). formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, come and possible			
death. Onset may be delayed 2-4 hours	or longer.			
Subacute to chronic toxicity:	с С			
respiration, nausea, vomiting, weakness,	/. Exposure to nitriles may cause increased salivation, flushing of the face, eye and respiratory tract irritation, shallow headache and diarrhea. Jaundice, anemia, and leucocytosis has been reported in some cases.			
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information				
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant info	nmation available			
Persistence and degradability No furth	er relevant information available.			
Bioaccumulative potential No further re	elevant information available.			
Mobility in soil No further relevant inforr Additional ecological information:	Hallon available.			
General notes:				
Do not allow material to be released to th	ne environment without proper governmental permits.			
Avoid transfer into the environment.	uantities to reach ground water, water course or sewage system.			
Results of PBT and vPvB assessment				
PBT: Not applicable. vPvB: Not applicable.				
Other adverse effects No further releval	nt information available.			
13 Disposal considerations				
Waste treatment methods	r national regulations to ansure proper dispace			
Uncleaned packagings:	r national regulations to ensure proper disposal.			
Recommendation: Disposal must be ma	ade according to official regulations			

Recommendation: Disposal must be made according to official regulations.

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Product name: 3-Nitrobenzonitrile

(Contd. of page 3)

14 Transport Information UNI-Number OUT, MODE, MAC, MAC UNI-Number OUT, MODE, MAC 000000000000000000000000000000000000		(Contd. of page 3)		
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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) Haard pictograms GHS06 Signal word Danger Haard pictograms GHS06 Signal word Danger Haard pictograms Haard pictograms GHS06 Signal word Danger Haard pictograms Haard pictograms GHS06 Signal word Danger P300 IF exposed or if you feel unwell. P200 Wear protective gloves / protective clothing. P301 Immediately call a POISON CENTER/doctor/ P302 Immediately call a POISON CENTER/doctor/ P303 If exposed or if you feel unwell. All components of this product are listed on the Canadian Non-Domestic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). SARA Sectific toxic chemical Stateme is not listed. Prop 65 - Developmental toxicity, smale Substance is not listed. Prop 65 - Developmental toxicity, smale Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.				
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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	Signal word Danger Hazard statements H301 Toxic if swallowed. H312 Harmful in contact with skin. Precautionary statements P280 Wear protective gloves / protective clothing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/ P302+P352 IF ON SKIN: Wash with plenty of water/ National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer 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 - 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. Information			
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	16 Other information			
Department of preparation / last revision 11/23/2015 / - 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) IACA: International Civil Aviation Organization ICAO: International Civil Aviation Organization ICAO: International Maritime Code for Dangerous Goods DAR: 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 Transportation IATA: International Nair Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ECAS: 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 (Contd. on page 1 USA)	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.			
ICAO: International Civil Aviation Organization 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 Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport IATA: International Air Transport EINECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of texisting Commercial Chemical Society) HIMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent (Contd. on page a USA)	Department is suffig SDS. Global Marketing Department Date of preparation / last revision 11/23/2015 / - 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-DBR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)			
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LC50: Lethal concentration, 50 percent (Contd. on page - USA	IA I A., International AIF 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: Workdiace Hazardous Materials Information System (Canada)			
gibe (io: unito) ASU 	LC50: Lethal concentration, 50 percent	(Contra on page F		
		USA		

Product name: 3-Nitrobenzonitrile

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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USA