

Avocado Research Chemicals Ltd - Material Safety Data Sheet 11102

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	n-Butyronitrile		
Product Number	11102		
Supplier	Johnson Matthey Catalog Company Inc. 30 Bond Street, Ward Hill, Massachusetts, 01835-8099 Emergency Telephone Number: (978) 521-6300; CHEMTREC: (800) 424-9300		
Alternative Names	n-Propyl cyanide		
2. COMPOSITION AND INFORMATION ON COMPONENTS			
Name	n-Butyronitrile		
Minor Impurities	Not determined		
CAS No.	109-74-0	EINECS No. 2037006	EEC No.
3. HAZARDS IDENTIFICATION			
Designation	FLAMMABLE ~ VERY TOXIC ~ IRRITANT		
Risk Phrases	R10 Flammable. R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin.		
4. FIRST AID MEASURES			
Inhalation	Remove to fresh air. If breathing is difficult give oxygen and seek medical attention.		
Eye Contact	Flush with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.		
Skin Contact	Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. If irritation persists or other symptoms are observed, seek medical advice.		
Ingestion	Rinse out mouth and drink lots of water. Seek urgent medical attention and show physician the container details.		
5. FIRE FIGHTING MEASURES			
Extinguishing Medium	Use fire fighting measures which suit the environment and take into account other materials which may be involved. In general, water-based extinguishers should not be used for fires involving organic materials. Use carbon dioxide or dry powder.		
Protective Equipment	Wear self-contained breathing apparatus and protective clothing.		
Hazardous Products of Combustion may include:	carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide.		
6. ACCIDENTAL RELEASE MEASURES			
Personal Protection	Keep away from ignition sources. Avoid inhalation of vapour. Wear protective equipment including rubber gloves, eye protection and breathing equipment. Keep unprotected persons away.		
Environmental Protection	Take precautions to ensure product does not contaminate the ground or enter the drainage system.		
Collection	Absorb in vermiculite or proprietary absorbent material and transfer to sealed containers for disposal.		
7. HANDLING AND STORAGE			
Handling	Chemicals should be used only by those trained in handling potentially hazardous materials. Rubber gloves, eye protection and protective clothing should be worn. Operations should be carried out in an efficient fume hood or equivalent system.		
Storage	Store in tightly sealed containers in a cool place. Protect from moisture.		
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION			
Respiratory	Avoid inhalation of product. Handle in an efficient fume hood or equivalent system.		
Eye	Avoid eye contact. Wear safety spectacles, goggles or, for larger quantities, a full face mask.		
Hands and Body	Irritant product. Avoid skin contact. Wear rubber gloves, protective clothing and, for larger quantities, full arm, body and face protection. Wash hands thoroughly after handling.		

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9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	Colorless liquid		
Physical Constants	b.p. 115-117°		
Molecular formula	C ₄ H ₇ N	Formula Wt.	69.11
Water solubility	Sl sol	Density	0.794
Flash Point	17°		
10. STABILITY AND REACTIVITY			
Specific Hazard			
Incompatibilities	Strong bases. Strong acids. Strong oxidising agents. Strong reducing agents.		
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide.		
11. TOXICOLOGICAL INFORMATION			
RTECS No.	ET8750000		
Acute Toxicity	LD ₅₀ : ORL-RAT 50mg/kg; SKN-RBT 500mg/kg Very toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.		
Special Note	Absorption may lead to the formation of methemoglobin. In sufficient concentrations this may cause cyanosis (blue-grey colouring of lips and skin caused by lack of oxygen). Effects may be delayed by several hours.		
12. ECOLOGICAL EFFECTS			
General	Take care to prevent chemicals from entering the ground, water courses or drainage systems.		
13. DISPOSAL CONSIDERATIONS			
Disposal	Disposal should be via an approved contractor and should take full account of local regulations.		
14. TRANSPORT INFORMATION			
UN Number	2411		
Land Transport	ADR/RIC Code/Class	6.1	Packing Group I
Maritime Transport	IMDG Code/Class	6.1	Packing Group I
Air Transport	IATA Code/Class	6.1	Packing Group I
15. REGULATORY INFORMATION			
CAS No. 109-74-0	EINECS No. 2037006	EEC No.	UN No. 2411 RTECS No. ET8750000
Hazard Indication	FLAMMABLE ~ VERY TOXIC ~ IRRITANT		
Risk & Safety Phrases	Flammable. Very toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. Keep away from sources of ignition - No Smoking. Wear suitable protective clothing, gloves and eye/face protection. If you feel unwell, seek medical advice (show the label where possible).		
TSCA	Not listed. For research and development use only.		
16. OTHER INFORMATION			
It must be recognised that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.			
Date of Last Review:	3rd August 1998	Date Printed:	18th September 1998