

# Avocado Research Chemicals Ltd - Material Safety Data Sheet 24611

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	Crotononitrile, mixture of isomers		
Product Number	24611		
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	2-Butenonitrile		
2. COMPOSITION AND INFORMATION ON COMPONENTS			
Name	Crotononitrile, mixture of isomers		
Minor Impurities	Not determined		
CAS No.	4786-20-3	EINECS No. Not listed	EEC No.
3. HAZARDS IDENTIFICATION			
Designation	HIGHLY FLAMMABLE ~ TOXIC ~ CORROSIVE ~ LACHRYMATORY		
Risk Phrases	R11 Highly flammable. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns. R40 Possible risk of irreversible effects.		
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. Seek urgent medical attention.		
Skin Contact	Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. In case of skin damage seek urgent medical advice. Show the physician the container details.		
Ingestion	Rinse out mouth and drink lots of water. Seek 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	Avoid inhalation or contact of vapour with eyes. Wear protective equipment including rubber gloves, safety goggles or 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	Volatile product. Avoid inhalation of vapour. 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	Corrosive product. Avoid skin contact. Wear corrosive-resitant gloves and, for larger quantities, full arm and body protection. Wash hands thoroughly after handling.		

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9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance			
Physical Constants	b.p. 117-120°		
Molecular formula	C <sub>4</sub> H <sub>5</sub> N	Formula Wt.	67.09
Water solubility		Density	0.820
Flash Point	17°		
10. STABILITY AND REACTIVITY			
Specific Hazard			
Incompatibilities	Strong acids. Strong oxidising agents.		
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide.		
11. TOXICOLOGICAL INFORMATION			
RTECS No.	GQ6322000		
Acute Toxicity	LD <sub>50</sub> : ORL-RAT: 501mg/kg Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Possible risk of irreversible effects.		
Special Note	Causes burns. Material is extremely destructive to mucous membranes, upper respiratory tract, eyes and skin. Inhalation may be fatal. Symptoms may include burning sensation, coughing, wheezing, laryngitis, headache, nausea and vomiting.		
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			
Land Transport	ADR/RIC Code/Class	Packing Group III	
Maritime Transport	IMDG Code/Class	Packing Group III	
Air Transport	IATA Code/Class	Packing Group III	
15. REGULATORY INFORMATION			
CAS No. 4786-20-3	EINECS No. Not listed	EEC No.	UN No. None RTECS No. GQ6322000
Hazard Indication	HIGHLY FLAMMABLE ~ TOXIC ~ CORROSIVE ~ LACHRYMATORY		
Risk & Safety Phrases	Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Possible risk of irreversible effects. Keep away from sources of ignition - No Smoking. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.		
TSCA			
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:	1st June 2000	Date Printed:	13th November 2000