

# Avocado Research Chemicals Ltd - Material Safety Data Sheet 20929

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	Acrolein		
Product Number	20929		
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-Propenal		
2. COMPOSITION AND INFORMATION ON COMPONENTS			
Name	Acrolein		
Minor Impurities	Not determined		
CAS No.	107-02-8	EINECS No. 2034534	EEC No.
3. HAZARDS IDENTIFICATION			
Designation	EXTREMELY FLAMMABLE ~ VERY TOXIC ~ CORROSIVE ~ LACHRYMATORY		
Risk Phrases	R12 Extremely flammable. R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns.		
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 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.			
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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## 20929 continued.

9. PHYSICAL AND CHEMICAL PROPERTIES				
Appearance	Colorless liquid			
Physical Constants	b.p. 52-54°			
Molecular formula	C <sub>3</sub> H <sub>4</sub> O	Formula Wt.	56.06	
Water solubility	V sol	Density	0.83	
Flash Point	-19°			
10. STABILITY AND REACTIVITY				
Specific Hazard				
Incompatibilities	Bases. Oxidising agents. Reducing agents. Oxygen.			
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide.			
11. TOXICOLOGICAL INFORMATION				
RTECS No.	AS1050000			
Acute Toxicity	LD <sub>50</sub> : ORL-RAT 46mg/kg; SKN-RBT 562mg/kg Very toxic by inhalation, in contact with skin and if swallowed. Causes burns.			
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.			
Chronic Toxicity	Carcinogen. May cause damage to the liver and kidneys. May cause damage to the lungs May cause damage to the cardiovascular system.			
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	1988			
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. 107-02-8	EINECS No. 2034534	EEC No.	UN No. 1988	RTECS No. AS1050000
Hazard Indication	EXTREMELY FLAMMABLE ~ VERY TOXIC ~ CORROSIVE ~ LACHRYMATORY			
Risk & Safety Phrases	Extremely flammable. Very toxic by inhalation, in contact with skin and if swallowed. Causes burns. Keep in a cool, well-ventilated place. 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. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).			
TSCA	Listed substance.			
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