

# Avocado Research Chemicals Ltd - Material Safety Data Sheet 10511

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	Indole-3-glyoxylyl chloride		
Product Number	10511		
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	None in common use.		
2. COMPOSITION AND INFORMATION ON COMPONENTS			
Name	Indole-3-glyoxylyl chloride		
Minor Impurities	Not determined		
CAS No.	22980-09-2	EINECS No. 2453622	EEC No.
3. HAZARDS IDENTIFICATION			
Designation	HARMFUL ~ CORROSIVE		
Risk Phrases	R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R34 Causes burns. R36/37 Irritating to eyes and respiratory system.		
4. FIRST AID MEASURES			
Inhalation	Remove to fresh air. In cases of serious discomfort 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. In case of tissue damage or other symptoms, seek medical attention.		
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, hydrogen chloride (hydrochloric acid), oxides of nitrogen, nitric acid, hydrogen cyanide.		
6. ACCIDENTAL RELEASE MEASURES			
Personal Protection	Avoid inhalation or contact of spilled material with skin or clothing. Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away.		
Environmental Protection	Take precautions to ensure product does not contaminate the ground or enter the drainage system.		
Collection	Mix with 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. Product reacts with water. Take precautions to avoid contact with atmospheric 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	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	m.p. 134-135°	Formula Wt.	207.62						
Molecular formula	C <sub>10</sub> H <sub>6</sub> ClNO <sub>2</sub>	Density	Not available						
Water solubility									
Flash Point	Not available								
10. STABILITY AND REACTIVITY									
Specific Hazard									
Incompatibilities	Strong oxidising agents. Strong bases.								
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, hydrogen chloride (hydrochloric acid), oxides of nitrogen, nitric acid, hydrogen cyanide.								
11. TOXICOLOGICAL INFORMATION									
RTECS No.	Not listed								
Acute Toxicity	LD <sub>50</sub> : No data reported Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to eyes and respiratory system.								
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	1759								
Land Transport	ADR/RIC Code/Class	8	Packing Group II						
Maritime Transport	IMDG Code/Class	8	Packing Group II						
Air Transport	IATA Code/Class	8	Packing Group II						
15. REGULATORY INFORMATION									
CAS No.	22980-09-2	EINECS No.	2453622	EEC No.		UN No.	1759	RTECS No.	Not listed
Hazard Indication	HARMFUL ~ CORROSIVE								
Risk & Safety Phrases	Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to eyes and respiratory system. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing.  Wear suitable protective clothing, gloves and eye/face protection.								
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		