

Avocado Research Chemicals Ltd - Material Safety Data Sheet 20315

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	R-Glycidol		
Product Number	20315		
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	R-Glycidol		
Minor Impurities	Not determined		
CAS No.	57044-25-4	EINECS No. Not listed	EEC No.
3. HAZARDS IDENTIFICATION			
Designation	TOXIC ~ CORROSIVE ~ MUTAGEN		
Risk Phrases	R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns. R42/43 May cause sensitisation by inhalation and skin contact. R45 May cause cancer. R46 May cause heritable genetic damage.		
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. 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.			
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 Collection	Take precautions to ensure product does not contaminate the ground or enter the drainage system. 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 refrigerator or cold room at 5 degrees centigrade or below. 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-resistant gloves and, for larger quantities, full arm and body protection. Wash hands thoroughly after handling.		

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20315 continued.

9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	Colorless liquid		
Physical Constants	b.p. 56-57°/11mm		
Molecular formula	C ₃ H ₆ O ₂	Formula Wt.	74.08
Water solubility	Misc	Density	1.11
Flash Point	81°		
10. STABILITY AND REACTIVITY			
Specific Hazard			
Incompatibilities	Oxidising agents.		
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide.		
11. TOXICOLOGICAL INFORMATION			
RTECS No.	RR0508000		
Acute Toxicity	LD ₅₀ : No data reported Toxic by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by inhalation and skin contact. May cause cancer. May cause heritable genetic damage.		
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. Mutagen. May cause damage to the central nervous 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	2810		
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. 57044-25-4	EINECS No. Not listed	EEC No.	UN No. 2810 RTECS No. RR0508000
Hazard Indication	TOXIC ~ CORROSIVE ~ MUTAGEN		
Risk & Safety Phrases	Toxic by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by inhalation and skin contact. May cause cancer. May cause heritable genetic damage. In case of accident or if you feel unwell, seek medical advice immediately (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