

Avocado Research Chemicals Ltd - Material Safety Data Sheet 15779

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	(R,R)-(-)-2,3-Butanediol		
Product Number	15779		
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	D-(-)-2,3-Butanediol		
2. COMPOSITION AND INFORMATION ON COMPONENTS			
Name	(R,R)-(-)-2,3-Butanediol		
Minor Impurities	Not determined		
CAS No.	24347-58-8	EINECS No.	2461869
		EEC No.	
3. HAZARDS IDENTIFICATION			
Designation	HARMFUL		
Risk Phrases	R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.		
4. FIRST AID MEASURES			
Inhalation	Remove to fresh air. Seek medical advice if symptoms persist.		
Eye Contact	Flush with copious amounts of water for at least 15 minutes. If symptoms arise, seek medical advice.		
Skin Contact	Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. If unusual symptoms are observed, seek medical advice. Show the physician the container details.		
Ingestion	Rinse out mouth and drink lots of water. In case of unusual symptoms, 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	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 is hygroscopic. 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 or goggles.		
Hands and Body	Avoid skin contact. Wear rubber gloves and protective clothing.		

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous colorless liquid		
Physical Constants	b.p. 76-78°/10mm		
Molecular formula	C ₄ H ₁₀ O ₂	Formula Wt.	90.12
Water solubility		Density	0.987
Flash Point	85°		

10. STABILITY AND REACTIVITY

Specific Hazard

Incompatibilities	Strong oxidising agents. Acid chlorides. Acid anhydrides. Chloroformates. Reducing agents.
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

RTECS No.	Not listed
Acute Toxicity	LD ₅₀ : No data reported Harmful by inhalation, in contact with skin and if swallowed.
Special Note	Symptoms of exposure may include headache, nausea and vomiting. Symptoms of exposure may include gastrointestinal disturbances.

12. ECOLOGICAL EFFECTS

General	Take care to prevent chemicals from entering the ground, water courses or drainage systems.
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13. DISPOSAL CONSIDERATIONS

Disposal	Disposal should be via an approved contractor and should take full account of local regulations.
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14. TRANSPORT INFORMATION

UN Number	1992		
Land Transport	ADR/RIC Code/Class	6.1	Packing Group III
Maritime Transport	IMDG Code/Class	6.1	Packing Group III
Air Transport	IATA Code/Class	6.1	Packing Group III

15. REGULATORY INFORMATION

CAS No. 24347-58-8	EINECS No. 2461869	EEC No.	UN No. 1992	RTECS No. Not listed
Hazard Indication	HARMFUL			
Risk & Safety Phrases	Harmful by inhalation, in contact with skin and if swallowed. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable 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
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