

Avocado Research Chemicals Ltd - Material Safety Data Sheet 20442

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER			
Name On Label	2,4-Dimethylsulfolane		
Product Number	20442		
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	2,4-Dimethyltetrahydrothiophene-1,1-dioxide		
2. COMPOSITION AND INFORMATION ON COMPONENTS			
Name	2,4-Dimethylsulfolane		
Minor Impurities	Not determined		
CAS No.	1003-78-7	EINECS No. 2137165	EEC No.
3. HAZARDS IDENTIFICATION			
Designation	TOXIC		
Risk Phrases	R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.		
4. FIRST AID MEASURES			
Inhalation	Remove to fresh air. If symptoms arise, seek medical attention. Show the physician the container details.		
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. 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, sulfur dioxide, sulfuric acid.		
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 cool place. Protect from 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. Wash hands thoroughly after handling.		

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light-yellow liquid		
Physical Constants	b.p. 280-282		
Molecular formula	C ₆ H ₁₂ O ₂ S	Formula Wt.	148.23
Water solubility	Misc	Density	1.13
Flash Point	146°		

10. STABILITY AND REACTIVITY

Specific Hazard

Incompatibilities	Strong oxidising agents.
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, sulfur dioxide, sulfuric acid.

11. TOXICOLOGICAL INFORMATION

RTECS No.	XN0525000
Acute Toxicity	LD ₅₀ : ORL-MUS 140mg/kg Toxic by inhalation, in contact with skin and if swallowed.

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	2810		
Land Transport	ADR/RIC Code/Class	6.1	Packing Group II
Maritime Transport	IMDG Code/Class	6.1	Packing Group II
Air Transport	IATA Code/Class	6.1	Packing Group II

15. REGULATORY INFORMATION

CAS No. 1003-78-7 **EINECS No.** 2137165 **EEC No.** **UN No.** 2810 **RTECS No.** XN0525000

Hazard Indication TOXIC

Risk & Safety Phrases Toxic by inhalation, in contact with skin and if swallowed.

Take off immediately all contaminated clothing.
If you feel unwell, seek medical advice (show the label where possible).
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

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