Avocado Research Chemicals Ltd - Material Safety Data Sheet 14240

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label 2,2-Dimethyl-1,3-dioxolane

Product Number 14240

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 Acetone ethylene acetal

2. COMPOSITION AND INFORMATION ON COMPONENTS

Name 2,2-Dimethyl-1,3-dioxolane

Minor Impurities Not determined

CAS No. 2916-31-6 EINECS No. 2208424 EEC No.

3. HAZARDS IDENTIFICATION

Designation HIGHLY FLAMMABLE ~ IRRITANT **Risk Phrases** R11 Highly flammable.

R36/37/38 Irritating to eyes, respiratory system and skin.

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. If irritation persists, seek medical

attention.

Skin Contact Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. If

irritation persists or other symptoms are observed, seek medical advice.

Ingestion Rinse out mouth and drink lots of water. In case of irritation or other symptoms, seek medical

attention.

5. FIRE FIGHTING MEASURES

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 Keep away from ignition sources. Avoid inhalation of vapour. Wear protective equipment including

rubber gloves, eye protection and breathing equipment. Keep unprotected persons away.

Environmental Protection

Collection

Take precautions to ensure product does not contaminate the ground or enter the drainage system.

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

RespiratoryVolatile product. Avoid inhalation of vapour. Handle in an efficient fume hood or equivalent system. **Eve**Avoid eye contact. Wear safety spectacles, goggles or, for larger quantities, a full face mask.

Eye Avoid eye contact. Wear safety spectacles, goggles or, for larger quantities, a full face mask.

Hands and Body Irritant product. Avoid skin contact. Wear rubber gloves, protective clothing and, for larger quantities, full arm, body and face protection. Wash hands thoroughly after handling.

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14240 continued.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colorless liquid b.p. 91-93°

Molecular formula Water solubility Flash Point C₅H₁₀O₂ **Formula Wt.** 102.13 **Density** 0.926

10. STABILITY AND REACTIVITY

Specific Hazard

Incompatibilities Strong oxidising agents. Strong acids.

Decomposition Hazardous products of decomposition may include: carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

RTECS No. Not listed

Acute Toxicity LD₅₀: No data reported

Irritating to eyes, respiratory system and skin.

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 1993

Land TransportADR/RIC Code/Class3.2Packing Group IIMaritime TransportIMDG Code/Class3.2Packing Group IIAir TransportIATA Code/Class3.2Packing Group II

15. REGULATORY INFORMATION

CAS No. 2916-31-6 EINECS No. 2208424 EEC No. UN No. 1993 RTECS No. Not listed

Hazard Indication HIGHLY FLAMMABLE ~ IRRITANT

Risk & Safety Phrases Highly flammable.

Irritating to eyes, respiratory system and skin. Keep away from sources of ignition - No Smoking.

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.

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 1998Date Printed:18th September 1998