# Avocado Research Chemicals Ltd - Material Safety Data Sheet 13215

### 1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label trans,trans-1,3-Butadiene-1,4-dicarboxylic acid

Product Number 13215

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 trans,trans-Hexa-2,4-diene-1,6-dioic acid; trans,trans-Muconic acid

## 2. COMPOSITION AND INFORMATION ON COMPONENTS

Name trans,trans-1,3-Butadiene-1,4-dicarboxylic acid

Minor Impurities Not determined

CAS No. 3588-17-8 EINECS No. 2227248 EEC No.

### 3. HAZARDS IDENTIFICATION

**Designation** HARMFUL ~ IRRITANT

**Risk Phrases** R20/22 Harmful by inhalation and if swallowed.

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 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, 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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# 13215 continued.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceWhite powderPhysical Constantsm.p. ca 300°(dec)

### 10. STABILITY AND REACTIVITY

Specific Hazard

**Incompatibilities** Bases. Oxidising agents. Reducing agents.

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

## 11. TOXICOLOGICAL INFORMATION

RTECS No. MM2235070

Acute Toxicity LD<sub>50</sub>: No data reported

Harmful by inhalation and if swallowed. 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 281

Land TransportADR/RIC Code/Class6.1Packing Group IIIMaritime TransportIMDG Code/Class6.1Packing Group IIIAir TransportIATA Code/Class6.1Packing Group III

### 15. REGULATORY INFORMATION

**CAS No.** 3588-17-8 **EINECS No.** 2227248 **EEC No. UN No.** 2811 **RTECS No.** MM2235070

Hazard Indication HARMFUL ~ IRRITANT

Risk & Safety Phrases Harmful by inhalation and if swallowed.

Irritating to eyes, respiratory system and skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

**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