Avocado Research Chemicals Ltd - Material Safety Data Sheet 12226

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label Allyl isothiocyanate

Product Number 12226

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

Allyl isothiocyanate Minor Impurities Not determined

CAS No. 57-06-7 **EINECS No. 2003092** EEC No.

3. HAZARDS IDENTIFICATION

Designation FLAMMABLE ~ VERY TOXIC ~ CORROSIVE ~ LACHRYMATORY

Risk Phrases Flammable.

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36/37 Irritating to eyes and respiratory system.

R45 May cause cancer.

Forms very sensitive explosive metallic compounds. R4

4. FIRST AID MEASURES

Ingestion

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. 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.

Rinse out mouth and drink lots of water. Seek urgent 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, oxides of nitrogen, nitric acid, sulfur

dioxide, sulfuric acid, hydrogen cyanide.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection Avoid inhalation or contact of vapour with eyes. Wear protective equipment including rubber gloves,

safety goggles or breathing equipment. Keep unprotected persons away.

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

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.

Store in tightly sealed containers in a refrigerator or cold room at 5 degrees centigrade or below. **Storage**

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.

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-resitant gloves and, for larger quantities, full

arm and body protection. Wash hands thoroughly after handling.

Continued on next page...

12226 continued.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Yellow liquid b.p. 149-151°

Molecular formula C_4H_5NS Formula Wt.99.16Water solubility10g/100mlDensity1.013

Flash Point 46

10. STABILITY AND REACTIVITY

Specific Hazard

Incompatibilities Strong bases. Acids. Strong oxidising agents. Amines. Alcohols. Water.

DecompositionHazardous products of decomposition may include: carbon monoxide, carbon dioxide, oxides of

nitrogen, nitric acid, sulfur dioxide, sulfuric acid, hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

RTECS No. NX8225000

Acute Toxicity LD₅₀: ORL-RAT 112mg/kg; SKN-RBT 88mg/kg

Very toxic by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to eyes and

respiratory system. May cause cancer.

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. Repeated exposure may lead to asthma.

Exposure may induce allergic reaction.

Chronic Toxicity Carcinogen. Mutagen.

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 1545

Land TransportADR/RIC Code/Class6.1Packing Group IMaritime TransportIMDG Code/Class6.1Packing Group IAir TransportIATA Code/Class6.1Packing Group I

15. REGULATORY INFORMATION

CAS No. 57-06-7 EINECS No. 2003092 EEC No. UN No. 1545 RTECS No. NX8225000

Hazard Indication FLAMMABLE ~ VERY TOXIC ~ CORROSIVE ~ LACHRYMATORY

Risk & Safety Phrases Flammable

Very toxic by inhalation, in contact with skin and if swallowed.

Causes burns.

Irritating to eyes and respiratory system.

May cause cancer.

Forms very sensitive explosive metallic compounds. Keep container tightly closed in a cool, well-ventilated place.

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

Take off immediately all contaminated clothing.

Wear suitable protective clothing, gloves and eye/face protection. If you feel unwell, seek medical advice (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