# Avocado Research Chemicals Ltd - Material Safety Data Sheet 21137

### 1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label Diethylchlorophosphine

Product Number 21137

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 Chlorodiethylphosphine

### 2. COMPOSITION AND INFORMATION ON COMPONENTS

Name Diethylchlorophosphine

Minor Impurities Not determined

CAS No. 686-69-1 EINECS No. 2116894 EEC No.

### 3. HAZARDS IDENTIFICATION

**Designation** HIGHLY FLAMMABLE ~ CORROSIVE ~ LACHRYMATORY

Risk Phrases R11 Highly flammable.

R34 Causes burns.

R14 Reacts violently with water.

# 4. FIRST AID MEASURES

InhalationRemove to fresh air. If breathing is difficult give oxygen and seek medical attention.Eye ContactFlush with copious amounts of water for at least 15 minutes. Seek urgent medical attention.Skin ContactRemove 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.

**Ingestion** Rinse out mouth and drink lots of water. In case of tissue damage 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, hydrogen chloride (hydrochloric acid),

phosphorus pentoxide, phosphoric acid.

# 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** 

Collection

Storage

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.

Store in tightly sealed containers in a cool place.

Product reacts with water. Take precautions to avoid contact with atmospheric moisture.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Volatile product. Avoid inhalation of vapour. 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 Corrosive product. Avoid skin contact. Wear corrosive-resitant gloves and, for larger quantities, full

arm and body protection. Wash hands thoroughly after handling.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colorless liquid
Physical Constants b.p. 133-134°
Molecular formula C<sub>4</sub>H<sub>10</sub>CIP

Water solubility

C<sub>4</sub>H<sub>10</sub>CIP **Formula Wt.** 124.55 **Density** 1.02

Flash Point 19

### 10. STABILITY AND REACTIVITY

Specific Hazard Reacts violently with water.

Incompatibilities Strong oxidising agents. Reacts violently with water.

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

chloride (hydrochloric acid), phosphorus pentoxide, phosphoric acid.

### 11. TOXICOLOGICAL INFORMATION

RTECS No. Not listed

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

Causes burns.

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.

### 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 2924

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. 686-69-1 EINECS No. 2116894 EEC No. UN No. 2924 RTECS No. Not listed

Hazard Indication HIGHLY FLAMMABLE ~ CORROSIVE ~ LACHRYMATORY

Risk & Safety Phrases Highly flammable.

Causes burns.

Reacts violently with water.

Keep away from sources of ignition - No Smoking.

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.

**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