Avocado Research Chemicals Ltd - Material Safety Data Sheet 21756

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label 4-Morpholinecarbonitrile

Product Number 21756

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 4-Cyanomorpholine

2. COMPOSITION AND INFORMATION ON COMPONENTS

Name 4-Morpholinecarbonitrile

Minor Impurities Not determined

CAS No. 1530-89-8 EINECS No. Not listed EEC No.

3. HAZARDS IDENTIFICATION

Designation HARMFUL ~ IRRITANT

Risk Phrases R20/21 Harmful by inhalation and in contact with skin.

R65 Harmful: May cause lung damage 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, oxides of nitrogen, nitric acid, hydrogen

cyanide.

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

Storage

Collection M

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.

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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21756 continued.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Flash Point

Physical Constants

b.p. 71-73°/0.6mm

Molecular formula Water solubility

C₅H₈N₂O

104°

Formula Wt. 112.12 Density 1.109

10. STABILITY AND REACTIVITY

Specific Hazard

Incompatibilities

Strong bases. Strong oxidising agents.

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

nitrogen, nitric acid, hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

RTECS No.

Not listed

Acute Toxicity LD₅₀: Not available

Harmful by inhalation and in contact with skin. 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 should be via an approved contractor and should take full account of local regulations. Disposal

14. TRANSPORT INFORMATION

UN Number

Land Transport Maritime Transport Air Transport

ADR/RIC Code/Class IMDG Code/Class IATA Code/Class

Packing Group n/a Packing Group n/a Packing Group n/a

15. REGULATORY INFORMATION

CAS No. 1530-89-8 EINECS No. Not listed EEC No. UN No. None RTECS No. Not listed

n/a

n/a

n/a

HARMFUL ~ IRRITANT **Hazard Indication**

Harmful by inhalation and in contact with skin. **Risk & Safety Phrases**

Harmful: May cause lung damage 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 gloves and eye/face protection.

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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: 1st June 2000 **Date Printed:** 13th November 2000