Avocado Research Chemicals Ltd - Material Safety Data Sheet 12452

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label Morpholine-4-carbonyl chloride

Product Number 12452

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

Morpholine-4-carbonyl chloride

Minor Impurities Not determined

CAS No. 15159-40-7 **EINECS No. 2392130** EEC No.

3. HAZARDS IDENTIFICATION

Designation HARMFUL ~ CORROSIVE ~ POSSIBLE CARCINOGEN

Risk Phrases Reacts violently with water.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R40 Possible risk of irreversible effects.

4. FIRST AID MEASURES

Ingestion

Storage

Inhalation Remove to fresh air. In cases of serious discomfort 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. In case of tissue damage or other symptoms, seek medical

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, hydrogen chloride (hydrochloric acid),

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

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

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

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Avoid inhalation of product. Handle in an efficient fume hood or equivalent system. Respiratory

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

12452 continued.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colorless liquid b.p. 112-114°/10mm

Molecular formula Water solubility C₅H₈CINO₂ **Formula Wt.** 149.58 **Density** 1.282

Flash Point >110°

10. STABILITY AND REACTIVITY

Specific Hazard Reacts violently with water.

Incompatibilities

Strong oxidising agents.

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

chloride (hydrochloric acid), oxides of nitrogen, nitric acid, hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

RTECS No. Not listed

Acute Toxicity LD₅₀: No data reported

Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Possible risk of

irreversible effects.

Chronic Toxicity Possible carcinogen.

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 1760

Land TransportADR/RIC Code/Class8Packing Group IIMaritime TransportIMDG Code/Class8Packing Group IIAir TransportIATA Code/Class8Packing Group II

15. REGULATORY INFORMATION

CAS No. 15159-40-7 EINECS No. 2392130 EEC No. UN No. 1760 RTECS No. Not listed

HARMFUL ~ CORROSIVE ~ POSSIBLE CARCINOGEN

Risk & Safety Phrases Reacts violently with water.

Harmful by inhalation, in contact with skin and if swallowed.

Causes burns.

Possible risk of irreversible effects.

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

Never add water to this product.

In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing, gloves and eye/face protection. If you feel unwell, seek medical advice (show the label where possible).

TSCA

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