Avocado Research Chemicals Ltd - Material Safety Data Sheet 20992

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label	Bis(2-oxo-3-oxazolidinyl)phosphinic chloride
Product Number	20992
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

Name	Bis(2-oxo-3-oxazolidinyl)phosphinic chloride		
Minor Impurities	Not determined		
CAS No.	68641-49-6	**EINECS No.** Not listed	**EEC No.**

3. HAZARDS IDENTIFICATION

Designation	CORROSIVE
Risk Phrases	R34 Causes burns.

4. FIRST AID MEASURES

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.
Ingestion	Rinse out mouth and drink lots of water. In case of tissue damage or other symptoms, seek medical attention.

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, phosphorus pentoxide, phosphoric 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.
Storage	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	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	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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20992 continued.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white powder		
Physical Constants	m.p. 190-192˚(dec)		
Molecular formula	$C_6H_8ClN_2O_5P$	**Formula Wt.**	254.57
Water solubility		**Density**	Not available
Flash Point	Not available		

10. STABILITY AND REACTIVITY

Specific Hazard

Incompatibilities	Strong bases. Strong oxidising agents.
Decomposition	Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, hydrogen chloride (hydrochloric acid), oxides of nitrogen, nitric acid, phosphorus pentoxide, phosphoric acid, hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

RTECS No.	SZ5871000
Acute Toxicity	LD_{50}: 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	1759		
Land Transport	ADR/RIC Code/Class	8	Packing Group II
Maritime Transport	IMDG Code/Class	8	Packing Group II
Air Transport	IATA Code/Class	8	Packing Group II

15. REGULATORY INFORMATION

CAS No. 68641-49-6 **EINECS No.** Not listed **EEC No.** **UN No.** 1759 **RTECS No.** SZ5871000

Hazard Indication	CORROSIVE
Risk & Safety Phrases	Causes burns. 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.

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