



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Gowan Company
P.O. Box 5569
Yuma, Arizona 85366-5569
(800) 883-1844

Emergency telephone number: (928) 783-3803

For 24-hour emergency assistance (spill, leak, fire, or exposure), call CHEMTREC®:

Inside the U.S.: (800) 424-9300

Outside the U.S.: (703) 527-3887

For medical emergency: (888) 478-0798

Product: Imidan® 50-WP Instapak®
Signal Word: DANGER
Active Ingredient: Phosmet (50%)
Chemical Name: N-(Mercaptomethyl)phthalimide, S-(O,O-dimethyl phosphorodithioate)
Chemical Class: Organophosphorous Pesticide

PCP Registration No.: 23006
CAS No.: 732-11-6

2. HAZARDS IDENTIFICATION

Physical Properties

Appearance: Tan powder
Odour: Mercaptan odour

Symptoms of Acute Exposure

The active ingredient is an organophosphate, which produces cholinesterase inhibition in experimental animals. Symptoms of cholinesterase inhibition include salivation, sweating, headache, nausea, muscle twitching, tremors, incoordination, blurred vision, tears, abdominal cramps, diarrhoea and chest discomfort. Exposure to high concentrations of dust may result in symptoms related to cholinesterase inhibition.

Medical Conditions Likely to be Aggravated by Exposure

No specific medical conditions are known which may be aggravated by exposure to the active ingredient in this product; however, any disease, medication or prior exposure which reduces normal cholinesterase activity may increase susceptibility to the toxic effects of the active ingredient.

Primary Routes of Exposure

Harmful if ingested, inhaled, absorbed into skin or if it comes into contact with the eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

	Component	CAS No.	% by weight
Active Ingredient:	Phosmet	732-11-6	50%

Only the identities of the active ingredient(s) and any *hazardous* inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

4. FIRST AID MEASURES

Ingestion may result in poisoning.

1. Keep airways open. Use artificial respiration, if necessary.
2. If ingested and patient is conscious, induce vomiting. Do not induce vomiting if patient is unconscious or in a convulsive state.
3. Call physician or poison control centre.
4. Wash skin of material and vomitus.
5. Save suspected agent and vomitus, if container is available, for disposal by physician.
6. In case of contact with skin, wash immediately with soap and water.
7. If in eyes, flush with clean water.

Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

Emergency Medical Care

1. Induce vomiting or lavage stomach.
2. Phosmet is a cholinesterase inhibitor. Symptoms of poisoning include nausea, headache, weakness, impaired vision, sweating, tightness in the chest, convulsions.

Atropine is antidotal. 2-PAM (pralidoxime) also is antidotal when administered early and in conjunction with atropine.

Consult your local poison control centre for additional information.

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: (888) 478-0798

5. FIRE FIGHTING MEASURES

Flashpoint (test method): Not applicable

Flammable Limits (% in air): Not applicable

Autoignition Temperature: Not available

Fire Fighting Procedures

The active ingredient in this formulation is a cholinesterase inhibitor. Refer to Section 4 FIRST AID MEASURES for additional information regarding overexposure. Products of combustion are irritating to the respiratory tract and may cause breathing difficulty and pulmonary oedema. Symptoms may be delayed several hours or longer depending upon the extent of exposure. As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate nonessential personnel from the fire area. Fire fighters should wear full-face self-contained breathing apparatus and impervious protective clothing. Use standard fire fighting techniques to extinguish fires involving this material: use water spray, dry chemicals or carbon dioxide. Use of high-pressure water hose may spread product from broken containers increasing contamination hazard. Contaminated buildings, areas, and equipment must not be used until they are properly decontaminated.

Extinguishing Media

In case of fire, use water spray (fog), dry chemical or carbon dioxide (CO₂).

Hazardous Decomposition Products

Combustion products and toxic materials.

Unusual Fire, Explosion, and Reactivity Hazards

Not defined as flammable or combustible. However, under fire conditions, the product may support combustion and decompose to give off toxic materials.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. Small spills can be handled routinely. Any person entering a significant spill area, areas with inadequate ventilation, or an area with an unknown concentration of a gas, vapour or dust should use an air-supplied respirator to prevent inhalation exposure. Wear protective clothing and eye protection to prevent skin and eye contact. Sweep up spilled material, being careful not to create dust. Place sweepings in an open drum. Generously cover the contaminated area with a common, powdered household detergent. Using a stiff brush and small amounts of water, work the detergent into the spill material forming a slurry. Do not splatter on one's self or bystanders, and completely avoid skin or eye contact with this material. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes. Spread a suitable absorbent such as clay, sawdust, or kitty litter on the slurried liquid. Shovel absorbed material into an open drum. Repeat if necessary. Flush area with water while observing proper environmental considerations. Seal drum and dispose of contaminated material in an approved pesticide landfill. Large spills must be handled according to a predetermined plan. For assistance in developing a plan, contact Gowan Company.

7. HANDLING AND STORAGE

Handling

Water-soluble sachets are contained in a protective container. Do not open sachets or allow sachets to become wet prior to adding to the spray tank. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes or on skin, or on clothing. Wear protective clothing, including rubber gloves and goggles, during mixing, loading and spraying. Do not breathe spray mist. Wash all contaminated clothing with soap and hot water before reuse. Do not contaminate feed or food. Wear clean clothes. Avoid drift to adjoining food and forage crops.

Storage

DO NOT contaminate water, food or feed by storage or disposal. Follow procedures specified in the National Fire Protection Association Codes and Standards for handling combustible dusts. Maintain good housekeeping to avoid dust build-up. Do not store within the reach of children. Containers should be stored in a well-ventilated area away from flammable materials and sources of heat or flame.

End-users can store this product at temperatures below 0°C provided handling is minimal. Warehouse storage and handling, and shipping must be at temperatures above 0°C. At temperatures below 0°C, soluble film packaging becomes susceptible to cracking and breakage due to handling and shipping. Keep water-soluble sachets in their protective container and store in a cool, dry place. Do not store at temperatures above 40°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection

Eye/face protection: Protective eyewear is not required; however to avoid eye contact with the material, choose protective eyewear appropriate to exposure potential.

Skin protection: Applicators and other handlers must wear a long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and chemical-resistant headgear for overhead exposure.

Respiratory protection: Use a dust/mist filtering respirator.

Applicators/handlers: Applicators and other handlers must wear a long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and chemical-resistant headgear for overhead exposure.

Additional protection information: Have eyewash and safety shower easily accessible to the work area. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control

This product is intended for use outdoors where engineering controls are not necessary. If use conditions are different (e.g. product reformulation or repackaging), employee exposure should be minimized using traditional techniques such as enclosed system design and/or local exhaust ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan powder
Odour:	Mercaptan odour
Melting Point:	Not applicable
Boiling Point:	Not applicable
Specific Gravity/Density:	15 lbs./ft ³
Solubility in H₂O	
Phosmet:	Not applicable
Vapour Pressure	
Phosmet:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Decomposition Products:	Combustion products; toxic materials.
Hazardous Mixtures:	Relatively non-reactive. Non-corrosive to materials commonly used in the construction of process equipment, storage and shipping containers.
Conditions to Avoid:	Excessive heat.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Oral LD ₅₀ (rat):	377 mg/kg (male), 275 mg/kg (female)
Dermal LD ₅₀ (rabbit):	>2000 mg/kg (sexes combined)
Inhalation LC ₅₀ (rat):	>20.5 mg/L (sexes combined, 4 hours)
Eye Contact (rabbit):	Mild irritation
Skin Contact (rabbit):	Mild irritation
Skin Sensitization (guinea pig):	Not a skin sensitizer

12. ECOLOGICAL INFORMATION

Summary of Effects – Phosmet

This pesticide is extremely toxic to fish. Do not apply directly to water, to area where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops while bees are actively visiting the treatment areas.

13. DISPOSAL CONSIDERATIONS

Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Completely empty container into transfer or application equipment. Do not reuse container. Triple or jet rinse the container then offer for recycling or reconditioning. If offering for reconditioning, contact the manufacturer. If offering for recycling, remove all caps, labels and booklets and take to a pesticide container depot. Recycling sites are identified on the CropLife Canada (Clean Farms) website at: www.croplife.ca. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer or the provincial regulatory agency in case of spill, and for clean-up of spills. Pesticide Disposal

14. TRANSPORT INFORMATION

TDG Classification

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (phosmet), 9, PG III

International Maritime Organization

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (phosmet), 9, PG III, MARINE POLLUTANT

International Civil Aviation Organization

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (phosmet), 9, PG III

15. REGULATORY INFORMATION

WHMIS Classification

This product is registered under the Pest Control Products Act and has been prepared in accordance with the WHMIS requirements..

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 0
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Prepared by:

Gowan Company
(800) 883-1844

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