

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Imidan® 70WP Instapak®
- **Registration number**
29064
PEST CONTROL PRODUCTS ACT
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** AGRICULTURE
- **Application of the substance / the preparation** Insecticide
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Gowan Company
P.O. Box 5569
Yuma, Arizona 85366-5569
(800) 883-1844
- **Further information obtainable from:** sds@gowanco.com
- **Emergency telephone number:**
Chemtrec Emergency Telephone 24 - Hours: Inside U.S. & Canada: (800) 424-9300
Outside the U.S. & Canada: +011 (703) 527-3887

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Additional information:**
Physical Properties
Appearance: Tan powder
Odor: Mercaptan odor

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, diarrhea, 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.

Hazardous Decomposition Products

Combustion products; 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.

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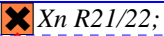

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- **Label elements**
- **Labelling according to EU guidelines:** Not applicable
- **Code letter and hazard designation of product:**
- **Other hazards** Not applicable
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

732-11-6	phosmet (ISO)	 Xn R21/22; N R50/53	70.0%
		 Acute Tox. 4, H302; Acute Tox. 4, H312	

4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.
- **After skin contact:**
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
- **After eye contact:**
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
- **After swallowing:**
Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
May cause cholinesterase depression. Atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine. Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. Compound inhibits cholinesterase, resulting in stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 24-48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically

For medical emergencies involving this product, call 1-888-478-0798.

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5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
Not defined as flammable or combustible. However, under fire conditions, the product may support combustion and decompose to give off toxic materials
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Avoid inhalation, skin and eye contact. Wear rubber gloves, boots, safety goggles and NIOSH approved respirator effective at removing phosmet.
Sweep up spilled material being careful not to create dust.
Place sweepings in a suitable waste container and label for content.
Generously cover the contaminated area with a common household detergent (e.g. Tide registered TM of Proctor and Gamble). Using a stiff brush, work the detergent into the spill material using sufficient water to form a slurry.
Brush the slurry into cracks and crevices, and allow to stand for 2 to 3 minutes. Be careful to completely avoid skin or eye contact; do not splatter on one's self or bystanders.
Spread a suitable absorbent such as clay on the slurried liquid, and shovel the absorbed material into the waste container. Repeat if necessary.
Flush the area with water, while observing proper environmental measures.
Seal drum and ensure it is labelled for content. Dispose according to local regulation. See DISPOSAL statement.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
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 its protective container and store in a cool, dry place. Do not store at temperatures above 40°C.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.

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KEEP WATER SOLUBLE SACHETS IN THE PROTECTIVE
CONTAINER AND STORE IN A COOL, DRY PLACE

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

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.

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional 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.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Suitable respiratory protective device recommended.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

· **Body protection:**

Protective work clothing

Mixer/loader/applicator must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical-resistant gloves

Custom mixers/loaders must wear:

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- Long-sleeved shirt and long pants
- Chemical-resistant coveralls
- Chemical-resistant footwear
- Chemical-resistant gloves

Mixers and loaders using products in water-soluble packaging must have immediately available for use in an emergency (such as broken package, spill or equipment breakdown) additional PPE. These PPE include coveralls and chemical-resistant footwear and a non-powered air purifying respirator equipped with an R-or P-series filter.

Applicators using airblast equipment with a closed cab must wear:

- Long-sleeved shirt and long pants
- Socks and shoes

Applicators using airblast equipment with an open cab must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant coveralls and head protection
- Chemical-resistant footwear
- Chemical-resistant gloves
- An air purifying respirator equipped with an R-or P-series filter

Applicators using ground equipment with an open cab must wear:

- Long-sleeved shirt and long pants
- Socks and shoes

Applicators using handheld equipment must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical-resistant gloves

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Powder
Colour:	Light beige
Odour:	Pungent, makes eyes water

· pH-value at 20 °C (68 °F): 6.6

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Density at 20 °C (68 °F): 0.240 g/cm³

· Solubility in / Miscibility with water:

Insoluble.

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- | | | |
|---|--|-------|
| · Solvent content: | | |
| Organic solvents: | | 0.0 % |
| · Solids content: 100.0 % | | |
| · Other information No further relevant information available. | | |

10 Stability and reactivity

- **Reactivity**
- **Chemical stability** Stable under normal conditions
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

Oral	LD50	275 mg/kg (rat) (male)
		258 mg/kg (rat) (female)
Dermal	LD50	>2000 mg/kg (rabbit) (sexes combined)
Inhalative	LC50/4 h	3.16 mg/l (rat) (sexes combined)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Toxicity**
Phosmet
This pesticide is toxic to fish and wildlife. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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. **Other adverse effects** No further relevant information available.

13 Disposal considerations

- . **Waste treatment methods**
- . **Recommendation** Make the empty outer container unsuitable for further use.
- . **Uncleaned packaging:**
- . **Recommendation:**
Disposal must be made according to official regulations.
Dispose of the empty container in accordance with provincial requirements.
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.

14 Transport information

. UN-Number	UN2783
. TDG, IMDG, IATA	UN2783, Organophosphorus, Solid, Toxic
. UN proper shipping name	UN2783, Organophosphorus, Solid, Toxic (Phosmet), 6.1, PGIII
. Transport hazard class(es)	
. TDG, IMDG	
	
. TDG class:	6
. Label	6.1
. IATA	
	
. Class	6
. Label	6.1
. Packing group	
. TDG, IMDG, IATA	III
. Environmental hazards:	Product contains environmentally hazardous substances: Phosmet Technical
. Marine pollutant:	Yes Symbol (fish and tree)
. Special marking (TDG):	Symbol (fish and tree)
. Special precautions for user	Not applicable.
. Danger code (Kemler):	6
. EMS Number:	F-A,S-F

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- | | |
|--|--|
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | UN2783, Organophosphorus, Solid, Toxic (Phosmet), 6.1, PGIII |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**
- **Risk phrases:** EYE AND SKIN IRRITANT
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

R21/22 Harmful in contact with skin and if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing MSDS:** Supply Chain

- **Contact:** sds@gowanco.com

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- **Sources**

IMIDAN® is a registered trademark of Gowan Company LLC.

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