

## 1 Identification

### 1.1 Product identifier

- **Trade name:** Imidan® WP insecticide
- **CAS Number:**  
Phosmet (70.0%): 732-11-6  
Registration number: PCP Registration No.: 29064  
Group 1B Insecticide
- **Application of the substance / the mixture** Agricultural Insecticide

### 1.3 Details of the supplier of the safety data sheet

#### · **Manufacturer/Supplier:**

Gowan Company  
P.O. Box 5569  
Yuma, Arizona 85366-5569  
(800) 960-4318

#### · **Information department:** *sds@gowanco.com*

### 1.4 Emergency telephone number:

Chemtrec® Emergency Telephone 24 - Hours: (Spills, leak or fire) Inside U.S. & Canada: (800) 424-9300  
Outside the U.S. & Canada: +011 (703) 527-3887

For medical emergency (Prosar®): (888) 478-0798

## 2 Hazard identification

### 2.1 Classification of the substance or mixture

#### · **Classification according to Regulation (EC) No 1272/2008**



GHS06 Skull and crossbones

Acute Toxicity (Oral) - Category 3      H301 Toxic if swallowed.



GHS09 Environment

Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Toxicity (Inhalation) - Category 4      H332 Harmful if inhaled.

Skin Sensitizer - Category 1A      H317 May cause an allergic skin reaction.

Eye Irritation - Category 2B      H320 Causes eye irritation.

Aquatic Acute 2      H401 Toxic to aquatic life.

### 2.2 Label elements

#### · **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labeled according to the CLP regulation.

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· **Hazard pictograms**

GHS06   GHS07   GHS09

· **Signal word** *Danger*· **Hazard-determining components of labeling:***phosmet (ISO)*· **Hazard statements***H301 Toxic if swallowed.**H332 Harmful if inhaled.**H320 Causes eye irritation.**H317 May cause an allergic skin reaction.**H401 Toxic to aquatic life.**H411 Toxic to aquatic life with long lasting effects.*· **Precautionary statements***P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**P301+P310 If swallowed: Immediately call a poison center/doctor.**P321 Specific treatment (see on this label).**P330 Rinse mouth.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P362+P364 Take off contaminated clothing and wash it before reuse.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Hazard description:**

*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. Fatal or poisonous if swallowed. May be fatal if inhaled. Causes eye irritation. May irritate 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 food or feed. Wear clean clothes. Avoid drift to adjoining food and forage crops.*

· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 0

Reactivity = 0

**HAZARD INDEX:**

4 Severe Hazard

3 Serious Hazard

2 Moderate Hazard

1 Slight Hazard

0 Minimal Hazard

· **2.3 Other hazards**· **PBT:** Not applicable.· **vPvB:** Not applicable.

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### 3 Composition/Information on ingredients

#### · 3.2 Chemical characterization: Mixtures

· **Description:** Mixture of the substances listed below with nonhazardous additions.

#### · **Dangerous components:**

CAS: 732-11-6	phosmet (ISO)	70.0% w/w
	<p>☠ Acute Toxicity (Oral) - Category 3, H301; ☠ Reproductive Toxicity - Category 2, H361; Specific Target Organ Toxicity - Single Exposure - Category 1, H370;</p> <p>☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Acute Toxicity (Dermal) - Category 4, H312; Acute Toxicity (Inhalation) - Category 4, H332</p>	

### 4 First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 1-888-478-0798 for emergency medical treatment information.

##### · **After inhalation:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call poison control center or doctor for further treatment advice.

##### · **After skin contact:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center 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 first 5 minutes, then continue rinsing eyes.
- Call a poison control center or doctor for treatment advice.

##### · **After swallowing:**

- Call a poison control center 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 center or doctor.
- Do not give anything by mouth to an unconscious person.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Firefighting measures

#### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 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

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· **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

· **6.1 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.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.

· **6.4 Reference to other sections** No dangerous substances are released.

### 7 Handling and storage

· **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.

· **Information about protection against explosions and fires:** No special measures required.

· **7.2 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:**

KEEP WATER SOLUBLE SACHETS IN THE PROTECTIVE

CONTAINER AND STORE IN A COOL, DRY PLACE

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

### 8 Exposure controls/ Personal protection

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

· **8.1 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.

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· **Components 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.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** 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:** Chemical-resistant gloves.

· **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:

- 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

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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

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

- **Form:** Powder
- **Color:** Light beige
- **Odor:** 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.

· **Auto igniting:** Product is not self-igniting.

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

· **Density at 20 °C (68 °F):** 0.240 g/cm<sup>3</sup>

##### · Solubility in / Miscibility with

- **Water:** Dispersible.

· **9.2 Other information** No further relevant information available.

### 10 Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability** Stable under normal conditions

##### · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** Do not store at temperatures above 40°C.

· **10.5 Incompatible materials:** No further relevant information available.

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· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **11.1 Information on toxicological effects**· **Acute toxicity:**

Toxic if swallowed.

Harmful if inhaled.

· **LD/LC50 values that are relevant for classification:**

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

## CAS: 732-11-6 phosmet (ISO) / Orthophosphorique de O, O-diméthyle et de phthalimidométhyle

Oral	LD50	230 mg/kg (rat)
Dermal	LD50	1150 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:** Irritating effect· **on the eye:**

Causes eye irritation.

· **Sensitization:**

May cause an allergic skin reaction.

· **Additional toxicological information:**· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **NTP (National Toxicology Program)**

None of the ingredients are listed.

### 12 Ecological information

· **12.1 Toxicity**

TOXIC to birds and small wild mammals.

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to bees exposed to direct treatment, drift, or residues on flowering crops or weeds.

DO NOT apply this product to flowering crops or weeds if bees are visiting the treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

· **Aquatic toxicity:** No further relevant information available.· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

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

## 13 Disposal considerations

· **13.1 Waste treatment methods**· **Recommendation:** Make the empty outer container unsuitable for further use.· **Uncleaned packagings:**· **Recommendation:**

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

· **14.1 UN-Number**

UN2783

· **DOT/TDG, ADR, IMDG, IATA**

UN2783, Organophosphorus, Solid, Toxic

· **14.2 UN proper shipping name**

UN2783, Organophosphorus, Solid, Toxic (Phosmet), 6.1, PGIII

· **14.3 Transport hazard class(es)**· **14.3 DOT/TDG (Transport dangerous goods):**· **Class**

6

· **Label**

6.1

· **ADR, IMDG**· **Class**

6

· **Label**

6.1

· **IATA**· **Class**

6

· **Label**

6.1

· **14.4 Packing group**· **DOT/TDG, ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**Product contains environmentally hazardous substances:  
Phosmet Technical

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· <b>Marine pollutant:</b>	Yes Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Not applicable
· <b>Danger code (Kemler):</b>	6
· <b>EMS Number:</b>	F-A,S-F
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
· <b>Transport/Additional information:</b>	
· <b>DOT/TDG</b>	
· <b>Remarks:</b>	- Special marking with the symbol (fish and tree).
· <b>ADR</b>	
· <b>Remarks:</b>	Specific marking with the symbol (fish and tree).
· <b>UN "Model Regulation":</b>	UN2783, Organophosphorus, Solid, Toxic (Phosmet), 6.1, PGIII

### 15 Regulatory information

#### · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### · SARA Title III

##### · Section 355 (extremely hazardous substances):

All ingredients are listed.

##### · Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

##### · TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

##### · Canadian substance listings:

##### · Canadian Domestic Substances List (DSL)

None of the ingredients are listed.

##### · Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients are listed.

##### · Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients are listed.

##### · National regulations:

##### · Additional classification according to Decree on Hazardous Materials:

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

##### · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### 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**

- H301 Toxic if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H361 Suspected of damaging fertility or the unborn child.
- H370 Causes damage to organs.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Supply Chain

· **Contact:** sds@gowanco.com

· **Date of the latest revision of the safety data sheet** 07/03/2019 / -

· **Abbreviations and acronyms:**

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

· **Sources**

- IMIDAN® is a registered trademark of Gowan Company, L.L.C.
- INSTAPAK® is a registered trademark of Gowan Company, L.L.C.

· **\* Data compared to the previous version altered.**

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