

1 Identification

· Product identifier

· Trade name: **Imidan® 70-W**

· Article number: US59699-59700

· CAS Number:

EPA Registration No.: 10163-169

Active Ingredient: Phosmet (70.0%), CAS: 732-11-6

· Application of the substance / the mixture Agricultural Insecticide

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Gowan Company, LLC.

P.O. Box 5569

Yuma, Arizona 85366-5569

(928) 783-8844

· Information department: sds@gowanco.com

· 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 (ProPharma Group®): (888) 478-0798

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to organs.



GHS07

Acute Toxicity - Oral 4

H302 Harmful if swallowed.

Acute Toxicity - Inhalation 4

H332 Harmful if inhaled.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS07



GHS08

· Signal word Danger

· Hazard-determining components of labeling:

phosmet (ISO)

Propylene glycol

· Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

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H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Hazard description:

May be fatal if swallowed, inhaled or absorbed through the skin. Avoid contact with eyes, skin, or clothing.

Avoid breathing spray mist. Causes moderate eye irritation.

· 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

· Other hazards**· Results of PBT and vPvB assessment****· PBT:** Not applicable in US.**· vPvB:** Not applicable in US.

3 Composition/information on ingredients

· Chemical characterization: Mixtures**· Description:** Mixture of the substances listed below with nonhazardous additions.**· Dangerous components:**

CAS: 732-11-6	phosmet (ISO)	70.0%
⚠ Acute Toxicity - Oral 3, H301; ⚠ Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Single Exposure 1, H370; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332		

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4 First-aid measures

· 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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· 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.

Immediately call a doctor.

· Information for doctor:

- Most important symptoms and effects, both acute and delayed Unknown

- Indication of any immediate medical attention and special treatment needed

This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is an antidotal and may be administered, but only in conjunction with atropine.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

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

· Advice for firefighters

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 edema. 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

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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.

· **Protective equipment:**

Wear self-contained respiratory protective device.

Mouth respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Small spills can be handled routinely. Any person entering either a significant spill area, an area with inadequate ventilation, or an area with an unknown concentration of a gas, vapor, or dust should use an air-supplied respirator to prevent inhalation exposure. Wear protective clothing and eye protection to prevent skin and eye contact.

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

· **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

A small spill can be handled routinely. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing and eye protection to prevent skin and eye contact. Use the following procedures:

1. Sweep up spilled material being careful not to create dust.
2. Place sweepings in an open drum.
3. Generously cover the contaminated areas with a common 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. Completely avoid skin and eye contact with this material. Brush the slurry into cracks and crevices and allow to stand for 2 - 3 minutes.
4. Spread a suitable absorbent such as clay, sawdust, or kitty litter on the slurried liquid. Shovel absorbed material into an open drum.
5. Repeat if necessary.
6. 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.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· PAC-1:		
CAS: 732-11-6	phosmet (ISO)	0.049 mg/m ³
CAS: 57-55-6	Propylene glycol	30 mg/m ³
· PAC-2:		
CAS: 732-11-6	phosmet (ISO)	0.54 mg/m ³
CAS: 57-55-6	Propylene glycol	1,300 mg/m ³
· PAC-3:		
CAS: 732-11-6	phosmet (ISO)	77 mg/m ³

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CAS: 57-55-6 Propylene glycol

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7,900 mg/m³

7 Handling and storage

· Handling:

· Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

May be fatal if swallowed, inhaled or absorbed through the skin. Avoid contact with eyes, skin, or clothing.

Avoid breathing spray mist. Causes moderate eye irritation. Do not contaminate water, food or feed by storage or disposal. Store in the original container and keep closed

· Information about protection against explosions and fires: Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

If a leaky container must be contained within another, mark the outer container to identify the contents. The storage area must be dry, well-lit, and well-ventilated.

· Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool, dry place.

· Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions: Keep receptacle tightly sealed.

· 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.

· 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.

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS: 1332-58-7 Kaolin (9.43%)

PEL	Long-term value: 15 * 5 ** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10 * 5 ** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 2 * mg/m ³ E; as respirable fraction, A4

CAS: 57-55-6 Propylene glycol (1.0%)

WEEL	Long-term value: 10 mg/m ³
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· Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (TLV)

WEEL: Guide to Occupational Exposure Values (AIHA WEELs)

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· **Additional information:**

The lists that were valid during the creation were used as basis.

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.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

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.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Use a dust/mist filtering respirator.

· **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.

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:** Not required.

· **Body protection:**

Protective work clothing

Mixers, loaders, and applicators using engineering controls, including enclosed-cockpit aerial equipment and enclosed-cab ground equipment, and mixers, loaders, and applicators using handheld equipment or handheld nozzles must wear at least (see engineering control section of this labeling for more requirements and options):

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves when mixing and loading, and when applying with handheld equipment or handheld nozzles, and
- Chemical-resistant apron when mixing and loading.

Motorized ground equipment applicators not in an enclosed cab, applicators dipping pine seedlings, and handlers engaged in cleaning up a spill or leak, or cleaning or repairing contaminated equipment, must wear:

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- Coveralls over long-sleeve shirt and long pants,
- Chemical-resistant gloves,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for overhead exposure,
- Chemical-resistant apron, if exposed to the concentrate or applying as a pine seedling dip, and
- A respirator with an organic-vapor cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R or P or He prefilter.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

- **Form:** Powder
- **Color:** Light beige
- **Odor:** Pungent
- **Odor threshold:** Not determined.

· **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.

· **Flammability (solid, gaseous):** Not determined.

· **Decomposition temperature:** Not determined.

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

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

· Explosion limits:

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Vapor pressure:** Not applicable.

· **Density at 20 °C (68 °F):** 0.24 g/cm³ (2.0028 lbs/gal)

- **Relative density** Not determined.
- **Vapor density** Not applicable.
- **Evaporation rate** Not applicable.

· Solubility in / Miscibility with

- **Water:** Dispersible.

· **Partition coefficient (n-octanol/water):** Not determined.

· Viscosity:

- **Dynamic:** Not applicable.
- **Kinematic:** Not applicable.

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· **Other information**

No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used 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:** Combustion products; toxic materials.

11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

Oral	LD50	275 mg/kg (rat) (male)
	LD50	258 mg/kg (rat) (female)
Dermal	LD50	>2,000 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:** No irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

· **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.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

12 Ecological information

· **Toxicity**

This chemical can contaminate surface water through aerial and ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

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This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product is highly toxic to bees exposed directly to application residues on crops. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your Cooperative Agricultural Extension Service.

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
 - **Other information:**

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.
- **Additional ecological information:**
 - **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).
- **Uncleaned packagings:**
 - **Recommendation:**

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned stay out of smoke.

14 Transport information

- | | |
|----------------------------------|---|
| · UN-Number | UN2783 |
| · DOT, ADR, IMDG, IATA | |
| · UN proper shipping name | Organophosphorus pesticides, solid, toxic |
| · DOT | 2783 ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC |
| · ADR | (phosmet (ISO)), ENVIRONMENTALLY HAZARDOUS |

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· **IMDG** ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC
(phosmet (ISO)), MARINE POLLUTANT

· **IATA** ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC
(phosmet (ISO))

· **Transport hazard class(es)**· **DOT**

· **Class** 6

· **Label** 6.1

· **ADR, IMDG**

· **Class** 6

· **Label** 6.1

· **IATA**

· **Class** 6

· **Label** 6.1

· **Packing group**· **DOT, ADR, IMDG, IATA** III

· **Environmental hazards:** Product contains environmentally hazardous substances: phosmet (ISO)

· **Marine pollutant:** Yes
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special precautions for user** Not applicable

· **Hazard identification number (Kemler code):** 60

· **EMS Number:** F-A,S-F

· **Stowage Category** A

· **Stowage Code** SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

· **Transport/Additional information:**· **DOT**

· **Quantity limitations** On passenger aircraft/rail: 100 kg
On cargo aircraft only: 200 kg

· **Remarks:** Special marking with the symbol (fish and tree).

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· **ADR**· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **IMDG**· **Limited quantities (LQ)**

5 kg

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":**

UN 2783 ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (PHOSMET (ISO)), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

EPA /FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency (EPA) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

· **Marketing authorization number:**· **SARA Title III**· **Section 355 (extremely hazardous substances):**

CAS: 732-11-6 phosmet (ISO)

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

None of the ingredients are listed.

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

CAS: 1332-58-7 Kaolin

ACTIVE

CAS: 57-55-6 Propylene glycol

ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients are listed.

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

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· TLV (Threshold Limit Value)		
CAS: 1332-58-7	Kaolin	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients are listed.		

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

Not applicable

· **Signal word**

(USA EPA) WARNING

· **Hazard-determining components of labeling:**

phosmet (ISO)

Propylene glycol

· **Hazard statements**

May be fatal if swallowed, inhaled or absorbed through the skin. Avoid contact with eyes, skin, or clothing.

Avoid breathing spray mist. Causes

moderate eye irritation.

H302+H332 Harmful if swallowed or if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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.

Notice: The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

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· **Department issuing SDS:** Systems Design and Control

· **Contact:** sds@gowanco.com

· **Date of preparation / last revision** 09/15/2022

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 3: Acute toxicity – Category 3

Acute Toxicity - Dermal 4: Acute toxicity – Category 4

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· **Sources** Imidan® is a registered trademark of Gowan Company, LLC.

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