

## 1 Identification

### · Product identifier

#### · Trade name: Armor®

· Article number: US4006

#### · CAS Number:

EPA Registration No.: 10163-412

Active Ingredient: Cryomazine (5.0%), CAS: 66215-27-8

· 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](mailto: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 Hazard(s) identification

### · Classification of the substance or mixture



GHS07

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

#### · Signal word Warning

#### · Hazard statements

H332 Harmful if inhaled.

#### · Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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

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

P312 Call a poison center/doctor if you feel unwell.

### · Other hazards

#### · Results of PBT and vPvB assessment

· PBT: Not applicable in US.

· vPvB: Not applicable in US.

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2025

Reviewed on 03/26/2025

Trade name: **Armor®**

(Contd. of page 1)


## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

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

- **Dangerous components:**

CAS: 66215-27-8 Cyromazine

 Aquatic Chronic 1, H410; Aquatic Acute 3, H402

5.0%

## 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.

For emergency medical treatment information call 24 hours a day at 1-888-478-0798.

- **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.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** Causes moderate eye irritation.
- **Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

- **For safety reasons unsuitable extinguishing agents:** Not determined.

- **Special hazards arising from the substance or mixture** Smoke, fumes, or vapors, and oxides of carbon.

- **Advice for firefighters**

- **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

US

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2025

Reviewed on 03/26/2025

Trade name: **Armor®**

(Contd. of page 2)

## 6 Accidental release measures

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

Refer to protective measures listed in sections 7 and 8.

- **Environmental precautions:**

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to lakes, streams, or ponds.

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

Methods for Containment :

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up:

For waste disposal, see section 13 of the SDS.

- **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:**

None of the ingredients are listed.

- **PAC-2:**

None of the ingredients are listed.

- **PAC-3:**

None of the ingredients are listed.

## 7 Handling and storage

- **Handling:**

- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Keep containers tightly closed in a dry, cool and well-ventilated area.

Do not use in animal feeds. Store at temperatures above 32°F. Crystals may form at lower temperatures. If this occurs, place the product in a warm room (72°F or above) and shake the container at frequent intervals until all crystals are dissolved. Since this formulation contains water, it can also freeze solid at temperatures below 32°F. However, when reconstituted and crystals redissolve, product performance is not affected.

- **Information about storage in one common storage facility:** Keep away from food, drink and feed.

- **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 section 7.

- **Control parameters**

- **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.

- **Regulatory information TLV:** Guide to Occupational Exposure Values (TLV)

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2025

Reviewed on 03/26/2025

Trade name: **Armor®**

(Contd. of page 3)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

Please refer to the product label. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Causes moderate eye irritation. Harmful if absorbed through the skin or inhaled. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or spray mist.

· **Breathing equipment:**

A respirator is not needed under normal and intended conditions of product use. Refer to 29 CFR 1910.134 for respiratory protection requirements.

· **Protection of hands:**



Protective gloves

· **Material of gloves** Waterproof gloves

· **Eye protection:**



Safety glasses

Chemical safety goggles.

· **Body protection:**

• Chemical safety goggles.

• Waterproof gloves

• long-sleeved shirt

• long pants

• shoes plus socks

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Liquid

· **Color:** Light yellow

· **Odor:** Acidic

· **Odor threshold:** Not determined.

· **pH-value at 20 °C (68 °F):** 4-5 (1%)

· **Change in condition**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** 121-125 °C (249.8-257 °F)

· **Flash point:** >93 °C (>199.4 °F)

(Contd. on page 5)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/26/2025

Reviewed on 03/26/2025

Trade name: **Armor®**

(Contd. of page 4)

· <b>Flammability:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Ignition temperature:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	1.0065 g/cm <sup>3</sup> (8.39924 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Not determined.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** Not reactive under normal conditions.
- **Chemical stability** Stable under recommended storage conditions.
- **Possibility of hazardous reactions** None under normal processing.
- **Conditions to avoid** Keep out of reach of children.
- **Incompatible materials:** None known based on information supplied.
- **Hazardous decomposition products:** Smoke, fume or vapors, and oxides of carbon.

## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

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

Oral	LD50	>5010 mg/kg (rat)
Dermal	LD50	>2010 mg/kg (rabbit)
Inhalative	LC50	> 2.9 mg/L (4-hr) (rat)

#### · Primary irritant effect:

- **on the skin:** Minimally irritating.

- **on the eye:** Mildly irritating to the eyes.

- **Sensitization:** No sensitizing effects known.

#### · Additional toxicological information:

Harmful if inhaled.

Do not ingest.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2025

Reviewed on 03/26/2025

Trade name: **Armor®**

(Contd. of page 5)

- **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.

- **Carcinogenicity**

Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** Not determined.

- **Mobility in soil** Not determined.

- **Ecotoxicological effects:**

- **Remark:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

- **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:**

Pesticide Disposal

Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of Federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions, must be disposed of according to Federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

- **Uncleaned packagings:**

- **Recommendation:**

Container Handling [less than or equal to 5 gallons]:

Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

Container Handling [greater than 5 gallons – mini-bulk]:

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2025

Reviewed on 03/26/2025

Trade name: **Armor®**

(Contd. of page 6)

and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

## 14 Transport information

· <b>UN-Number</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b>	
· <b>DOT, ADR, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable
· <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable
· <b>UN "Model Regulation":</b>	Void

## 15 Regulatory information

· <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
· <b>Marketing authorization number:</b>
· <b>SARA Title III</b>
· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredients are listed.
· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients are listed.
· <b>TSCA (Toxic Substances Control Act):</b>
None of the ingredients are listed.
· <b>Hazardous Air Pollutants</b>
None of the ingredients are listed.
· <b>Proposition 65</b>
· <b>Chemicals known to cause cancer:</b>
None of the ingredients are listed.

(Contd. on page 8)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/26/2025

Reviewed on 03/26/2025

**Trade name:** Armor®

(Contd. of page 7)

· **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.

· **TLV (Threshold Limit Value)**

None of the ingredients are listed.

· **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) CAUTION/PRECAUCIÓN

· **Hazard statements**

H332 Harmful if inhaled.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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

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

P312 Call a poison center/doctor if you feel unwell.

· **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.

· **NFPA ratings (Scale 0-4)**

Health= 1

Fire= 1

Reactivity= 0

· **Department issuing SDS:** Supply Chain

· **Contact:** sds@gowanco.com

· **Date of preparation / last revision** 03/26/2025 / 4.0

· **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

(Contd. on page 9)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/26/2025

Reviewed on 03/26/2025

**Trade name: Armor®**

(Contd. of page 8)

*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)**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 - Inhalation 4: Acute toxicity – Category 4**Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**· Sources Armor® is a registered trademark of Gowan Company, LLC.*

US