

## 1 Identification

### · Product identifier

· **Trade name:** TREFLAN® HFP HERBICIDE

· **Article number:** US65963-68273

· **CAS Number:**

EPA Registration No.: 10163-363

Active Ingredient: Trifluralin (43.0%), CAS:1582-09-8

· **Application of the substance / the mixture** Agricultural herbicide

### · 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

Carcinogenicity 2 H351 Suspected of causing cancer.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



GHS07

Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

### · 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:**

trifluralin (ISO) (containing < 0,5 ppm NPDA)

Solvent naphtha (petroleum), heavy arom.

· **Hazard statements**

H319 Causes serious eye irritation.

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H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H304 May be fatal if swallowed and enters airways.

· **Precautionary statements**

P201 Obtain special instructions before use.

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

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

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

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

P301+P310 If swallowed: Immediately call a poison center/doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

· **Hazard description:**

Causes Moderate Eye Irritation • Harmful if Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals. Avoid contact with eyes, skin, or clothing.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 1

**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: 64742-94-5	Solvent naphtha (petroleum), heavy arom. ⚠️ Aspiration Hazard 1, H304; ⚠️ Aquatic Chronic 2, H411; ⚠️ Specific Target Organ Toxicity - Single Exposure 3, H336; Flammable Liquids 4, H227; Aquatic Acute 2, H401	49.3%
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CAS: 1582-09-8

trifluralin (ISO) (containing &lt; 0,5 ppm NPDA)

43.0%

 Carcinogenicity 2, H351;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  
 Sensitization - Skin 1, H317

## 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.

#### · 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** No further relevant information available.

#### · Indication of any immediate medical attention and special treatment needed

This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Aspiration of this product may produce a severe pneumonitis. Stomach lavage with a cuffed endotracheal tube in place and immediate administration of activated charcoal, 6 to 8 heaping teaspoonfuls with water, should be considered. Treatment is otherwise symptomatic and supportive.

## 5 Fire-fighting measures

### · Extinguishing media

#### · Suitable extinguishing agents:

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

#### · For safety reasons unsuitable extinguishing agents: Water spray

### · Special hazards arising from the substance or mixture

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen fluoride (HF)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

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- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Causes Moderate Eye Irritation • Harmful if Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals. Avoid contact with eyes, skin, or clothing.
- **Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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**

· <b>PAC-1:</b>		
CAS: 1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	1.2 mg/m <sup>3</sup>
· <b>PAC-2:</b>		
CAS: 1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	13 mg/m <sup>3</sup>
· <b>PAC-3:</b>		
CAS: 1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	78 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
  - **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
    - **Information about storage in one common storage facility:** Store away from foodstuffs.
    - **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Avoid freezing. Store above 40°F
- **Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 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.
    - **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
    - **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.
    - **Protection of hands:**



Protective gloves

- **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:**



Tightly sealed goggles

- **Body protection:**
  - Long-sleeved shirt and long pants
  - Chemical-resistant gloves such as Nitrile, Butyl, Neoprene, or Barrier Laminate
  - Shoes plus socks
  - Protective eyewear

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Liquid
      - **Color:** Orange
    - **Odor:** Solvent-like
    - **Odor threshold:** Not determined.

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· <b>pH-value at 20 °C (68 °F):</b>	5
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	232 °C (449.6 °F)
· <b>Flash point:</b>	99 °C (210.2 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	540 °C (1,004 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</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>	1.11 g/cm <sup>3</sup> (9.26295 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>	Dispersible.
· <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** No further relevant information available.
- **Chemical stability**
  - **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:** Strong oxidizers
- **Hazardous decomposition products:**
  - Carbon monoxide (CO)
  - Carbon dioxide
  - Hydrogen fluoride (HF)
  - Nitrogen oxides (NO<sub>x</sub>)

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## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

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

Oral	LD50	>5,000 mg/kg (rat) male
	LD50	>4,013 mg/kg (rat) female
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>7.74 mg/l (rat)

#### · Primary irritant effect:

##### · on the skin:

Brief contact may cause slight skin irritation with local redness.

Prolonged contact may cause skin irritation with local redness.

May cause drying and flaking of the skin.

##### · on the eye:

May cause slight eye irritation.

May cause slight corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

#### · Sensitization: Sensitization possible through skin contact.

#### · Additional toxicological information:

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

Irritant

#### · Carcinogenic categories

##### · IARC (International Agency for Research on Cancer)

CAS: 1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	3
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##### · 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 pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters.

#### Trifluralin

##### Acute toxicity to fish

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 < 0.1 mg/L in the most sensitive species).

LC50, *Oncorhynchus mykiss* (rainbow trout), flow-through test, 96 Hour, 0.088 mg/l

LC50, *Lepomis macrochirus* (Bluegill sunfish), flow-through test, 96 Hour, 0.089 mg/l

##### Acute toxicity to aquatic invertebrates

EC50, water flea *Daphnia magna*, static test, 48 Hour, 0.245 mg/l

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EC50, mussel *Mytilus edulis*, static test, 48 Hour, 0.096 mg/l

Acute toxicity to algae/aquatic plants

ErC50, *Pseudokirchneriella subcapitata* (green algae), 72 Hour, 0.0532 mg/l

EC50, *Lemna gibba*, Growth inhibition, 7 d, 0.043 mg/l EbC50, diatom *Navicula* sp., 5 d, Biomass, 0.015 mg/l

Toxicity to bacteria

EC50, activated sludge, 3 Hour, > 100 mg/l

Chronic toxicity to fish

NOEC, *Oncorhynchus mykiss* (rainbow trout), static test, 48 d, growth, 0.00114 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, *Daphnia magna* (Water flea), semi-static test, 21 d, growth, 0.0507 mg/l

Toxicity to Above Ground Organisms

Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).

Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

oral LD50, *Colinus virginianus* (Bobwhite quail), > 2250mg/kg bodyweight.

dietary LC50, *Colinus virginianus* (Bobwhite quail), 5 d, > 5000mg/kg diet.

oral LD50, *Apis mellifera* (bees), > 100micrograms/bee

contact LD50, *Apis mellifera* (bees), > 100micrograms/bee

Toxicity to soil-dwelling organisms

LC50, *Eisenia fetida* (earthworms), 14 d, > 1,000 mg/kg

- **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.
- **Additional ecological information:**
  - **General notes:**
    - 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:**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
- **Uncleaned packagings:**
  - **Recommendation:**

Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and 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 or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into

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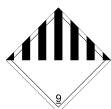
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application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

## 14 Transport information

**· UN-Number**
**· DOT, ADR, IMDG, IATA** UN3082

**· UN proper shipping name**
**· DOT** Environmentally hazardous substance, liquid, n.o.s. (trifluralin (ISO) (containing < 0,5 ppm NPDA))  
**· ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trifluralin (ISO) (containing < 0,5 ppm NPDA))  
**· IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trifluralin (ISO) (containing < 0,5 ppm NPDA)), MARINE POLLUTANT  
**· IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trifluralin (ISO) (containing < 0,5 ppm NPDA))

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

**· Class** 9 Miscellaneous dangerous substances and articles  
**· Label** 9

**· ADR, IMDG, IATA**

**· Class** 9 Miscellaneous dangerous substances and articles  
**· Label** 9

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

**· Environmental hazards:**

Product contains environmentally hazardous substances: trifluralin (ISO) (containing &lt; 0,5 ppm NPDA), naphthalene

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

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

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

**· Special precautions for user**

Warning: Miscellaneous dangerous substances and articles

**· Hazard identification number (Kemler code):** 90

**· EMS Number:** F-A,S-F

**· Stowage Category** A

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· <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLURALIN (ISO) (CONTAINING < 0,5 PPM NPDA)), 9, III

## 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):

None of the ingredients are listed.

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

CAS: 1582-09-8 | trifluralin (ISO) (containing < 0,5 ppm NPDA)

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

CAS: 64742-94-5 | Solvent naphtha (petroleum), heavy arom. ACTIVE

#### · Hazardous Air Pollutants

CAS: 1582-09-8 | trifluralin (ISO) (containing < 0,5 ppm NPDA)

#### · 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.

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· **Carcinogenicity categories**

· <b>EPA (Environmental Protection Agency)</b>	
CAS: 1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA) C
· <b>TLV (Threshold Limit Value)</b>	
None of the ingredients are listed.	
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
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**

(US EPA) CAUTION

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

trifluralin (ISO) (containing < 0,5 ppm NPDA)  
Solvent naphtha (petroleum), heavy arom.

· **Hazard statements**

H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H304 May be fatal if swallowed and enters airways.

· **Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P321 Specific treatment (see on this label).  
P331 Do NOT induce vomiting.  
P302+P352 If on skin: Wash with plenty of water.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
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.

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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.*

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

· **Contact:** sds@gowanco.com

· **Date of preparation / last revision** 09/28/2022

· **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

ELINECS: 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

Flammable Liquids 4: Flammable liquids – Category 4

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Aspiration Hazard 1: Aspiration hazard – Category 1

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

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

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

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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