

1 Identification

· 1.1 Product identifier

- **Trade name:** **EPTAM® LIQUID EC HERBICIDE**
PCP Registration No.:11284
- **CAS Number:** EPTC (800 g/L) : 759-94-4
- **Application of the substance / the mixture** Group 8 Herbicide

· 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

Gowan Company
P.O. Box 5569
Yuma, Arizona 85366-5569
(928) 783-8844

· **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**



Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed.

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

· 2.2 Label elements

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

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

- **Hazard pictograms**



GHS07

- **Signal word** Warning

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

EPTC (ISO)

- **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/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.

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.

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

· **Hazard description:**

KEEP OUT OF REACH OF CHILDREN - HARMFUL IF SWALLOWED

Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Wash skin thoroughly with soap and water after use. Avoid contamination of food and feed. Do not contaminate irrigation water or water used for domestic purposes. Keep container closed when not in use.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

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.

3 Composition/Information on ingredients

· **3.2 Chemical characterization: Mixtures**

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

· **Dangerous components:**

CAS: 759-94-4 EPTC (ISO)

⚠ Acute Toxicity (Oral) - Category 4, H302

80.0% w/w

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.

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- **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**
 Probable mucosal damage may contraindicate the use of gastric lavage.

This product contains EPTC, a thiocarbamate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine by injection is antidotal. Pralidoxime chloride (2-PAM) is NOT recommended as an antidote for this compound. Thiocarbamates have been shown in laboratory animals to cause a disulfiram-(Antabuse) type reaction in combination with alcohol.

5 Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:**
 CO₂, 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**
 - **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 Keep unnecessary people away and isolate hazard area. Wear appropriate personal protective equipment described in Section 8.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**
 Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined under EXPOSURE CONTROLS/PERSONAL PROTECTION (Section 8). Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, or Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.
- **6.4 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.

7 Handling and storage

- **7.1 Precautions for safe handling**
 Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Wash skin thoroughly with soap and water after use. Avoid contamination of food and feed. Do not contaminate irrigation water or water used for domestic purposes. Keep container closed when not in use
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

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· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

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

Keep container closed when not in use. Do not store near food, feed, seeds or fertilizers. Can be stored at temperatures as low as minus 45°F.

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

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

· **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**

· **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:**

Wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks, chemical-resistant footwear and respirator during mixing, loading, application, clean-up and repair. The respirator must be equipped with a NIOSH/MSHA/BHSE-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH/MSHA/BHSE-approved canister approved for pesticides.

When handling greater than 755 kilogram of active ingredient per day (i.e., treating over 110 ha at highest label rate of 6.8 kg. a.i. ha), a closed mixing and loading system is required. Handlers must wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks, and chemical-resistant footwear during application, clean-up and repair. A respirator is also required during application. The respirator must be equipped with a NIOSH/MSHA/BHSE-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH/MSHA/BHSE-approved canister approved for pesticides.

· **8.2 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.

· **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

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

· **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.

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· **Eye protection:**

Safety glasses

· **Body protection:**

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks

9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

- **Form:** Liquid
- **Color:** Amber colored
- **Odor:** Slightly Vanilla
- **Odor threshold:** Not determined.

· **pH-value:** Not determined.· **Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 127 °C (260.6 °F)

· **Flash point:** > 97 °C (>206.6 °F)· **Flammability (solid, gaseous):** Not applicable.· **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 determined.· **Density at 20 °C (68 °F):** 0.9546 g/cm³ (7.96614 lbs/gal)

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

· **Solubility in / Miscibility with**· **Water:** Dispersible.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

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· **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 according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** High temperatures
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Can decompose at high temperatures, forming toxic gases

11 Toxicological information

· **11.1 Information on toxicological effects**

- **Acute toxicity:**
Harmful if swallowed or if inhaled.

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

Oral	LD50	1325 mg/kg (rat)
Dermal	LD50	2750 mg/kg (rabbit)
Inhalative	LC50/4 h	10.3 mg/l (rat)

· **Primary irritant effect:**

- **on the skin:** Mild irritation
- **on the eye:** Moderately Irritating
- **Sensitization:** Based on available data, the classification criteria are not met.

· **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**

- **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.

· **Other information:**

TOXIC to wild mammals.
Toxic to aquatic organisms and terrestrial plants.

· **Ecotoxicological effects:**

· **Remark:**

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or

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fine textured such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

· Other information:

Ecotoxicity data shown is for the active ingredient EPTC:

96-hr LC50 Cutthroat trout: >17 mg/L

96-hr LC50 Bluegill sunfish: >27 mg/L

96-hr LC50 Rainbow trout: >19 mg/L

Slightly toxic to fish.

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

· 12.5 Results of PBT and vPvB assessment

· PBT: *Not applicable.*

· vPvB: *Not applicable.*

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

13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

14 Transport information

· 14.1 UN-Number

· DOT/TDG

Void

· ADR, ADN, IMDG, IATA

néant

· 14.2 UN proper shipping name

· DOT/TDG

Void

· ADR, ADN, IMDG, IATA

N/A

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- | | |
|---|----------------|
| · 14.3 Transport hazard class(es) | |
| · 14.3 DOT, ADR, ADN, IMDG, IATA | |
| · Class | N/A |
| · 14.4 Packing group | |
| · DOT/TDG, ADR, IMDG, IATA | N/A |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |
| · UN "Model Regulation": | Not regulated |

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):**

None of the ingredients are listed.

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

All ingredients are listed.

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

CAS: 759-94-4 | EPTC (ISO)

- **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.

- **Other regulations, limitations and prohibitive regulations**

SARA Title III Classification

Section 302/304: Not applicable

Section 311/312: Immediate (acute) health hazard

Delayed (chronic) health hazard

Fire

Section 313 chemical(s): EPTC

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Proposition 65

This product contains a chemical known to the state of California to cause Birth Defects or other reproductive harm.

CERCLA Reportable Quantity (RQ)

None.

RCRA Classification

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA Status

Exempt

DSL

Exempt from DSL

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

16 Other information

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

· **Relevant phrases**

H302 Harmful if swallowed.

· **Department issuing SDS:** Supply Chain

· **Contact:** sds@gowanco.com

· **Date of the latest revision of the safety data sheet** 06/27/2019 / -

· **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 Eptam® is a registered trademark of Gowan Company, L.L.C.**

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