

Safety Data Sheet
according to PMRA

Printing date 10/12/2023

Reviewed on 10/12/2023

1 Identification

· **Product identifier**

· **Trade name:** YUMA® GL LIQUID EC HERBICIDE

· **Article number:** Canada_English12

· **CAS Number:**

Quisqualofop P-Ethyl (96 g/L) : 100646-51-3

Registration number PCP Registration No.: 30100

Group 1 Herbicide

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

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Nissan Chemical Corporation

c/o Nissan Chemical America Corporation

10333 Richmond Avenue, Suite 1100

Houston, TX 77042

Distributed by:

Gowan Company, L.L.C

Gowan Canada: 1-800-960-4318

· **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 identification

· **Classification of the substance or mixture**



GHS05 Corrosion

Serious Eye Damage - Category 1

H318 Causes serious eye damage.



GHS07

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

Skin Irritation - Category 2

H315 Causes skin irritation.

· **Label elements**

· **GHS label elements**

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

· **Hazard pictograms**



GHS05



GHS07

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- **Signal word** Danger
- **Hazard-determining components of labeling:** Quizalofop P-ethyl
- **Hazard statements**
 - H332 Harmful if inhaled.
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
- **Precautionary statements**
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P264 Wash thoroughly after handling.
 - P271 Use only outdoors or in a well-ventilated area.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P302+P352 If on skin: Wash with plenty of water.
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P310 Immediately call a poison center/doctor.
 - P321 Specific treatment (see on this label).
 - P362+P364 Take off contaminated clothing and wash it before reuse.
 - P332+P313 If skin irritation occurs: Get medical advice/attention.
- **Hazard description:**
 - DANGER – CORROSIVE TO EYES
 - WARNING - SKIN IRRITANT
 - POTENTIAL SKIN SENSITIZER
- **Classification system:**
 - **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 0
- **HAZARD INDEX:**
 - 4 Severe Hazard
 - 3 Serious Hazard
 - 2 Moderate Hazard
 - 1 Slight Hazard
 - 0 Minimal Hazard
- **Other hazards**
 - PBT: Not applicable.
 - vPvB: Not applicable.

3 Composition/Information on ingredients

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

· **Dangerous components:**

CAS: 100646-51-3	Quizalofop-p-ethyl ⚠ Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) – Category 4, H312	96.0 g/L
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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.

· **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.

· Do not induce vomiting unless told to do so by the 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**

Vomiting may cause aspiration pneumonia. Treat symptomatically.

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.

Use fire fighting measures that suit the environment.

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

Vapor forms explosive mixture with air. Heating can release vapors which can be ignited.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Mouth respiratory protective device.

6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

May be harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapours or spray mist. Use adequate ventilation. When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, school and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days following application for scouting activities in camelina. For all other

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crops, do not enter or allow worker entry into treated area during the REI of 12 hours.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to section 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.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

DANGER – CORROSIVE TO EYES. WARNING - SKIN IRRITANT. POTENTIAL SKIN SENSITIZER.

May be harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapours or spray mist. Use adequate ventilation. When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after 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:** Store only in the original receptacle.

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

· **Further information about storage conditions:**

Protect from frost.

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.

· **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.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

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· **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:**

Wear goggles or face shield, chemical resistant gloves and coveralls over long-sleeved shirt and long pants during mixing, loading, clean up and repair.

For worker protection during application, wear a hat and coveralls over long-sleeved shirt and long pants.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

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

· **pH-value:** 5.6

· **Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

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

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** 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):** 1.02 g/cm³ (8.5119 lbs/gal)
- **Relative density** Not determined.

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· 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.
· 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** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	5,900 mg/kg (rat) (Male)
	LD50	4,100 mg/kg (rat) (Female)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	2.6 mg/l (rat)

· Primary irritant effect:

- **on the skin:** Moderately Irritating
- **on the eye:** Strong irritant with the danger of severe eye injury.

· Sensitization:

No sensitizing effects known.

· Additional toxicological information:

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

Harmful

Irritant

· 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.

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12 Ecological information

· **Toxicity**

This product contains a petroleum distillate, which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment. This product is toxic to fish. Overspray or drift to fish-bearing water must be avoided. Overspray or drift onto important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided.

· **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:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

· **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.

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:**

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.*

14 Transport information

· **UN-Number**

· **DOT/TDG, ADR, IMDG, IATA** *Void*

· **ADN** *Void*

· **UN proper shipping name**

· **DOT/TDG, ADR, IMDG, IATA** *Void*

· **ADN** *Void*

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- | | |
|---|----------------|
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT/TDG, ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | Yes |
| · Special precautions for user | Not applicable |
| · Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable |
| · UN "Model Regulation": | Void |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Marketing authorization number:**
- **SARA Title III**

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

None of the ingredients are listed.

- **Canadian Non-Domestic Substances List (NDSL)**

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.

- **GHS label elements**

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

- **Hazard pictograms**



GHS05 GHS07

- **Signal word** *Danger*

- **Hazard statements**

H332 Harmful if inhaled.

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H315 Causes skin irritation.

H318 Causes serious eye damage.

· **Precautionary statements**

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

P264 Wash thoroughly after handling.

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

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

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

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

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

P310 Immediately call a poison center/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

· **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.

· **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.

H312 Harmful in contact with skin.

· **Department issuing SDS:** Supply Chain

· **Contact:** sds@gowanco.com

· **Date of the latest revision of the safety data sheet** 10/12/2023

· **Abbreviations and acronyms:**

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

· **Sources** YUMA® GL LIQUID EC HERBICIDE is a registered trademark of Gowan Company, L.L.C.