

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: YUMA® GL****CAS Number:** Quizalofop P-Ethyl (96 g/L) : 100646-51-3**Registration number** PCP Registration No.: 30100**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use** Agriculture**Application of the substance / the mixture** Group 1 Herbicide**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Nissan Chemical Industries, Ltd. (Nissan)
c/o Nissan Chemical America Corporation
10777 Westheimer
Houston, TX 77042
2012 0002 2012 05 07

Distributed by:
Gowan Company

Further information obtainable from: 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

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008***The product is not classified according to the CLP regulation.***Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.**Additional information:***Physical Properties**Appearance:* Dark amber liquid*Odor:* Aromatic hydrocarbon*Symptoms of Acute Exposure (Naphthalene)*

Symptoms from excessive prolonged inhalation exposure to naphthalene may include headache, dizziness and confusion. Ingestion of naphthalene may initially include jaundice, bloody urine, flank pain, anemia, red blood cell destruction, hemolysis and acute renal failure. Higher exposures may lead to lens opacity, temporary nervous

system depression resulting in dizziness, headache, confusion, incoordination, loss of consciousness.

Coma and fatality (gross overexposure) may also occur.

Symptoms of Chronic Exposure (N-methyl-2-pyrrolidone)

Prolonged exposure to n-methyl-2-pyrrolidone may include burning, redness, swelling, pain, blisters, cracking, or rash.

Primary Routes of Exposure

Oral, dermal, ingestion, inhalation

2.2 Label elements**DANGER – CORROSIVE TO EYES****WARNING SKIN IRRITANT****POTENTIAL SKIN SENSITIZER**

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KEEP OUT OF REACH OF CHILDREN

· **Labelling according to EU guidelines:**

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

Quizalofop-p-ethyl

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

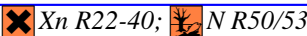
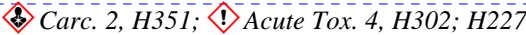
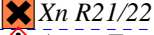
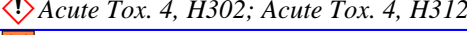
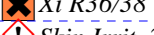
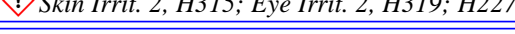
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

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

· **Dangerous components:**

91-20-3	naphthalene	 Carc. Cat. 3	<11.0%
			
100646-51-3	Quizalofop-p-ethyl	 	96g/L
	M-Pyrol	 	<8.0%

· **SVHC**

M-Pyrol

SECTION 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.

· **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.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

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

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions:

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

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

6.3 Methods and material for containment and cleaning up:

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

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Avoid contact with skin and eyes. Do not ingest or inhale vapours or spray.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store product in original container only, away from other pesticides, fertilizers, food or feed.

Information about storage in one common storage facility: Store this product away from food or feed.

Further information about storage conditions: Protect from frost.

7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients 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.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

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

· **Material of 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:**



Tightly sealed goggles

· **Body protection:**

Applicators and other handlers must wear:

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

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

- **Form:** Liquid
- **Colour:** Dark amber
- **Odour:** Aromatic
- **Odour threshold:** Not determined.

· **pH-value:** 5.6

· **Change in condition**

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

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· Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C (68 °F):	1.02 g/cm ³ (8.512 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Emulsifiable.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:**

· LD/LC50 values relevant for classification:		
Oral	LD50	5900 mg/kg (rat) (Male) 4100 mg/kg (rat) (Female)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	2.6 mg/l (rat)

- **Primary irritant effect:**
 - **on the skin:** Moderately Irritating

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- **on the eye:** Severe irritant
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic 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.
TOXIC to non target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.
TOXIC to aquatic organisms.
- **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.
 - **Additional ecological information:**
 - **General notes:** Not known to be hazardous to water.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
Must not be disposed 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 packaging:**
 - **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.

SECTION 14: Transport information

- **14.1 UN-Number**
- **TDG, DOT** Void
- **IMDG, IATA** UN3082

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· 14.2 UN proper shipping name

· TDG, DOT

Not Regulated

· IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S., MARINE POLLUTANT

· IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.

· 14.3 Transport hazard class(es)

· 14.3 TDG, DOT

· Class

Void

· IMDG, IATA



· Class

9 Miscellaneous dangerous substances and articles.

· Label

9

· 14.4 Packing group

· TDG, DOT

Void

· IMDG, IATA

III

· 14.5 Environmental hazards:

· Marine pollutant:

Yes

Symbol (fish and tree)

· Special marking (IATA):

Symbol (fish and tree)

· 14.6 Special precautions for user

Not applicable.

· EMS Number:

F-A,S-F

**· 14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code**

Not applicable.

· UN "Model Regulation":

Not regulated by US DOT, TDG

SECTION 15: Regulatory information

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

No further relevant information available.

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

SECTION 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

H227 Combustible liquid.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

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*R21/22 Harmful in contact with skin and if swallowed.**R22 Harmful if swallowed.**R36/38 Irritating to eyes and skin.**R40 Limited evidence of a carcinogenic effect.**R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.***· Department issuing MSDS: Supply Chain****· Contact:** *sds@gowanco.com***· Abbreviations and acronyms:***IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonized 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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**: Flammable liquids, Hazard Category 4**Acute Tox. 4: Acute toxicity, Hazard Category 4**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**Carc. 2: Carcinogenicity, Hazard Category 2***· Sources** *YUMA® GL is a registered trademark of Gowan Company, L.L.C.*

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