



SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Leopard

Revision date 03-Nov-2025

Version 1 Supersedes Date:

03-Nov-2025

Product Code(s) HRB01113-1

Print Date 03-Nov-2025

ADM.07000.H.3.A (old AG-Q3-100 EC) 9510526

1. Identification

Product identifier

Product Name Leopard

Other means of identification

Synonyms Quizalofop-P-ethyl 100 EC

Registration Number(s) 33715

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

ADAMA Agricultural Solutions Canada Ltd.
300-191 Lombard Avenue
Winnipeg, Manitoba R3B 0X1
1-855-264-6262

Emergency telephone number

Emergency Telephone For fire, spill and/or leak contact INFOTRAC: 1-800-535-5053 (North America)
1-352-323-3500 (International) For medical emergencies and health/safety inquiries,
contact ProPharma Group: 1-877-250-9291

2. Hazard(s) identification

This chemical is a product registered under the Pest Control Products Act (PCPA) of Canada and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. Please see Section 15 for additional information. This product has been classified according to Canada's Hazardous Product Regulations (WHMIS 2015).

Classification

Serious eye damage/eye irritation	Category 2B
Aspiration hazard	Category 1

Label elements

Signal word: Danger

Hazard statements

Causes eye irritation
May be fatal if swallowed and enters airways

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

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

If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Causes mild skin irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Synonyms Quizalofop-P-ethyl 100 EC.

Formula EC

Chemical name	CAS No	Weight-%	INTERNATIONAL GHS CLASSIFICATION
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	-	62-69	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)
Quizalofop-P-ethyl	100646-51-3	8-12	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Propylene carbonate	108-32-7	7-12	Eye Irrit. 2 (H319)
Isoxadifen-ethyl	163520-33-0	5-9	Acute Tox. 4 (H302)Sens. 1 (H317)Acute 1 (H400) Aquatic Chronic 1 (H410)
Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy-	99734-09-5	4-7	Aquatic Chronic 3 (H412)
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	90194-26-6	1-3	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)

2-Ethylhexanol	104-76-7	< 2	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)
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4. First-aid measures

Description of first aid measures

General advice	First aider: Pay attention to self-protection. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Ingestion	Call a poison control center or doctor for treatment advice. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms	None known.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage**Precautions for safe handling**

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store away from other materials. Store above 0°C.
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8. Exposure controls/personal protection**Control parameters**

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/face protection	None required for consumer use. Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing.

Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Color	: yellow red		
Odor	: characteristic		
Odor threshold	: No data available		
pH	: 5.5 - 8	CIPAC MT 75.3	
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: 107	EEC A.9	
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: No data available		
Vapor density	: No data available		
Relative density	: 1.02-1.06	OECD 109	
Solubility(ies) mg/l	: No data available		No data available
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm ² /s 40 °C	: 5.7		40°C
Explosive properties	: Not an explosive		
Oxidizing properties	: No data available		
Surface tension	: 34.9		20°C
Particle Size	: Not applicable		

Other information

Bulk density g/ml : Not applicable

10. Stability and reactivity**Reactivity**

No information available.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

Information on toxicological effects**Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 2000	Rat	OECD 425	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 LC50	: > 5.32	Rat	OECD 403	

Skin corrosion/irritation	: Mild skin irritant	Rabbit	OECD 404
Serious eye damage/eye irritation	: Causes eye irritation	Rabbit	OECD 405
Sensitization	: Not a skin sensitizer	Guinea pig	OECD 406

Chronic toxicity**Germ cell mutagenicity****Chemical name**

Quizalofop-P-ethyl	: Not classified
Isoxadifen-ethyl	: Not classified

Carcinogenicity**Chemical name**

Quizalofop-P-ethyl	: Not Carcinogenic
Isoxadifen-ethyl	: Not Carcinogenic

Reproductive toxicity**Chemical name**

Quizalofop-P-ethyl	: Not toxic for the reproductive system
Isoxadifen-ethyl	: Not toxic for the reproductive system

STOT - Single Exposure**Chemical name**

Quizalofop-P-ethyl	: No data available
Isoxadifen-ethyl	: No data available

STOT - Repeated Exposure**Chemical name**

Quizalofop-P-ethyl	: No data available
Isoxadifen-ethyl	: No data available

Aspiration hazard**Chemical name**

Hydrocarbons, C10-C13, aromatics, <1% naphthalene	: H304 - May be fatal if swallowed and enters airways
Quizalofop-P-ethyl	: No data available
Isoxadifen-ethyl	: No data available

Ecotoxicity**Aquatic toxicity****Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: No data available			
Crustacea 48-hour EC50 mg/l	: No data available			
Algae 72-hour EC50 mg/l	: No data available			
Other plants EC50 mg/l	: No data available			

Chronic aquatic toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	: No data available			
Crustacea NOEC mg/l	: No data available			
Algae NOEC mg/l	: No data available			
Other plants NOEC mg/l	: No data available			

Terrestrial Toxicity**Birds Oral LD50 mg/kg****Chemical name**

Quizalofop-P-ethyl	: > 2000
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Bees Oral LD50 µg/bee**Chemical name**

Quizalofop-P-ethyl : > 94 OECD 213 OECD 214

Abiotic Degradation**Water DT50 days****Chemical name**

Quizalofop-P-ethyl : < 1 OECD 308

Soil DT50 days**Chemical name**

Quizalofop-P-ethyl : < 0.5 OECD 307

Biodegradation**Chemical name**

Quizalofop-P-ethyl : Not readily biodegradable

Log Pow**Chemical name**

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Quizalofop-P-ethyl	: 2.8	OECD 107	

Bioconcentration factor (BCF)**Chemical name**

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Quizalofop-P-ethyl	: 380		Low

Adsorption/Desorption**Chemical name**

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Quizalofop-P-ethyl	: ----		No data available

13. Disposal considerations**Waste treatment methods****Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

14. Transport information**TDG****UN/ID no**

UN3082

UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Quizalofop-P-ethyl)

Hazard class

9

Packing group

III

Special Provisions

16, 99

Marine pollutant

Hydrocarbons, C10-C13, aromatics, <1% naphthalene.

Description

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Quizalofop-P-ethyl), 9, III

Note

Section 1.45.1 of the TDG Regulation provides an exemption from documentation and safety marks for this product when transported by road or railway vehicle in non-bulk containers.

DOT

UN/ID no	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Quizalofop-P-ethyl)
Hazard class	9
Packing group	III
Special Provisions	8, 146, 173, 335, 441, IB3, T4, TP1, TP29
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Quizalofop-P-ethyl), 9, III, Marine pollutant
Emergency Response Guide Number	171

IATA

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Quizalofop-P-ethyl)
Transport hazard class(es)	9
Packing group	III
ERG Code	9L
Special Provisions	A97, A158, A197, A215
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Quizalofop-P-ethyl), 9, III

IMDG

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Quizalofop-P-ethyl)
Hazard Class	9
Packing group	III
EmS-No	F-A, S-F
Special Provisions	274, 335, 969
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Quizalofop-P-ethyl), 9, III, Marine pollutant

**15. Regulatory information**

The laws, regulations and standards listed below have requirements on the management of this product:

International Regulations**International Inventories**

TSCA	Contact supplier for inventory compliance status.
DSL/NDL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Registration Number Pest Control Product Reg. No. 33715

Pest Control Product Statement This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. Read the label before using or handling the pest control product. These label requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: POISON CAUTION

Difference between SDS and product label

	PCPA Product Label	GHS SDS
Acute toxicity - Inhalation	Harmful if inhaled	NA
Eye irritation	NA	Causes eye irritation
Aspiration hazard	NA	May be fatal if swallowed and enters airways

16. Other information

NFPA Health hazards 2 Flammability 1 Instability 0 Physical and chemical properties -
HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value * Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision date 03-Nov-2025

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet