

SAFETY DATA SHEET

1. Identification

Product identifier	TIDE QUIZALOFOP SELECT
Pest Control Product Registration Number	35559
Recommended use	Herbicide
Restrictions on use	See product label
Canadian supplier identifier	Tide International Canada, Inc. 102-245 Hanlon Creek Boulevard Canada
Telephone Number	+1 866 699 7717
Email	Not available
Emergency phone number	1-800-424-9300 (CHEMTREC)

2. Hazard identification

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015)

Health hazards	Skin corrosion/irritation Serious eye damage/irritation	Category 3 Category 2A
Label elements		
Signal word	Warning	
Hazard statements	H316 H319 P261 P264 P272 P273	Causes mild skin irritation Causes serious eye irritation Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
Precautionary statements	P280 P302+P352 P305+P351+P338 P310	Avoid release to the environment. Wear protective gloves, eye protection, face protection, protective clothing. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER

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P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS number	Content (%, w/w)
Quizalofop-p-ethyl	Not applicable	100646-51-3	10
Other	Not applicable	Not applicable	Balance

4. First-aid measures

General advice	Move the person out of the danger zone. Lay down and transport the affected person in a stable lateral position. Immediately remove contaminated clothing and dispose of it in a controlled manner.
Inhalation	Move outdoors. Keep patient warm and at rest. Call a physician or Poison Control Center immediately.
Skin contact	Wash immediately with lots of soap and water. If symptoms persist check with your doctor.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. After the first 5 minutes remove the lenses, if present, and continue rinsing the eye. Consult a doctor if irritation develops and persists.
Ingestion	Rinse mouth. Do not induce vomiting. Call a physician or Poison Control Center immediately.
Symptoms	No known or expected symptoms.
Toxicological Information	Treat symptomatically. In case of significant ingestions, gastric lavage should be considered within the first two hours. There is no specific antidote

5. Firefighting measures

Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
Special exposure hazards	In case of fire: Carbon monoxide. Nitrogen oxides. Carbon dioxide.

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Fire and explosion hazards	Toxic fumes may be released In case of fire and/or explosion do not breathe fumes.
Advice for firefighters	Precautionary measures fire: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials. Firefighting instructions: Appropriate self-contained breathing apparatus may be required. Get the package away from the fire if this can be done without risk. Prevent firefighting water from entering the environment. Protection during firefighting: Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	Do not allow material to contaminate surface water system.

6. Accidental release measures

Personal precautions, For non-emergency personnel	Protective equipment: Wear suitable protective clothing, gloves and eye or face protection. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Wear eye protection. Personal protective equipment. Emergency procedures: Evacuate personnel to a safe area.
For emergency responders	Protective equipment: Wear suitable hand, body and head protection For containment: Label the container and provide warning statements to prevent any contact.
Methods and materials for containment and cleaning up	Methods for cleaning up: Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Clean spills promptly. Wash contaminated area with large amounts of water. Avoid release to the environment. Minimize spread. Prevent further leakage or spillage if safe to do so. Contain contaminated water/firefighting water. If the product contaminates rivers and lakes or drains inform respective authorities.
Environmental precautions	

7. Handling and Storage

Precautions for safe handling	Additional hazards when processed: Do not allow run-off from firefighting to enter drains or water courses. Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads). Precautions for safe handling: Avoid contact with skin and eyes. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated
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Indications for common storage	clothing and shoes. Wash clothing and equipment after handling.
Specific end uses	Keep separate from food, drinks and feed
Conditions for safe storage, including any incompatibilities	<p>Refer to label instructions and/or package insert.</p> <p>Technical measures: Ensure adequate ventilation, especially in confined areas. Store locked up.</p> <p>Storage conditions: Keep only in original container. Store in a dry place. Store in a closed container.</p> <p>Store in a well-ventilated place. Protect from sunlight.</p> <p>Storage temperature: 0 - 30 °C</p> <p>Packaging materials: Keep only in the original container in a cool, well-ventilated place away from combustible materials.</p>

8. Exposure controls/Personal protection

Personal protection	Under normal conditions of use and handling, refer to the instructions on the label and/or the package insert. In all other cases, the following recommendations should be applied.
Individual protection measures	
Eye/face protection	Wear safety goggles (compliant with EN166, field of use = 5 or equivalent approval).
Skin and body protection	<p>Wear standard coveralls and category 3 type 4 protective clothing.</p> <p>In case of significant exposure risk, consider a higher type of protective clothing.</p> <p>Wear two layers of clothing whenever possible. A cotton or polyester/cotton coverall should be worn under the chemical protective suit and should be professionally laundered frequently.</p> <p>If the chemical protective suit is splashed, sprayed, or significantly contaminated, decontaminate as much as possible and carefully remove it. Dispose of according to the manufacturer's instructions.</p> <p>Use nitrile gloves (minimum thickness 0.4 mm) certified CE (or equivalent approval). Wash them if they get dirty. Eliminate them when they become contaminated inside, when they are perforated or when the external dirt cannot be removed. Wash your hands frequently and always before eating, drinking, smoking or using the toilet.</p>
Hand Protection	Respiratory protection is not required under anticipated exposure conditions.
Respiratory protection	Respiratory protection should be used only to avoid residual risk from activities of short duration, when all possible measures to reduce exposure at the source have been taken, e.g. containment or exhaust and local exhaust ventilation. Always follow the respiratory protection equipment manufacturer's instructions for use and maintenance.

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General protection measures

In case of direct handling and possible contact with the product: Full chemical protection suit

9. Physical and chemical properties

Physical state	Liquid
Colour	Yellow to dark amber
Odour	Aromatic odour
Melting point and Freezing point	Not available
Boiling point, or initial boiling point and boiling range	Not available
Flammability	Not available
Lower flammable or explosive limit	Not available
Upper flammable or explosive limit	Not available
Flash point	55.53 ± 0.06 °C at the normal atmospheric pressure (i.e., 755.18 ± 0.58 mm Hg)
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	5-7
Viscosity of liquids	3.48 ± 0.01 cP (mPa s), at 20 ± 0.1 °C.
Miscibility	Miscible with Ultrapure water (Milli-Q Water), Methanol and Hexane
Surface tension (1 g/l aqueous solution)	36.14 ± 0.42 mN/m at 20 °C
Explodability	Non-explosive
Density and relative density	0.95-0.98 g/mL, at 20 ± 0.5 °C
Oxidation / Reduction	Compatible with water, kerosene, mono-ammonium phosphate, potassium permanganate and zinc dust.
Particle characteristics	Not applicable

10. Stability and reactivity

Chemical Stability	Stable under normal use and storage conditions.
Possibility of hazardous reactions	Will not occur
Conditions to avoid	Heat. High temperature. Open flame. Direct sunlight.
Incompatible Materials	No additional information available.
Hazardous decomposition products	Can decompose at high temperatures forming toxic gases.

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11. Toxicological information

Information on the likely routes of exposure

Acute toxicity

Acute oral (rat)	LD ₅₀ 5000 mg/kg
Acute dermal (rabbits)	LD ₅₀ > 2000 mg/kg
Acute inhalation (rats)	LC ₅₀ Species: rat(male/female) Value:> 5.157 mg/l
Skin corrosion/irritation	Mildly irritating. (Rabbit)
Exposure minutes	Not available
Erythema value	Not available
Oedema value	Not available
Serious eye damage/eye irritation	Causes serious eye irritation. (Rabbit)
Corneal opacity value	Not available
Iris lesion value	Not available
Conjunctival reddening value	Not available
Recover days	Not available
Respiratory or skin sensitization	Not considered as positive.
Respiratory sensitization	Not available
Germ cell mutagenicity	Not available
Carcinogenicity	Not available
Aspiration hazard	Not available
Chronic effects	Not available
Further information	Not available

12. Ecological information

Ecotoxicity	Oncorhynchus mykiss: LC ₅₀ (96 h)> 100 mg/L Aquatic invertebrates (Daphnia magna): LC50(48 h)> 100 mg/L Honeybee: Oral: The LD ₅₀ value with its respective 95% lower and upper confidence limits of quizalofop-p-ethyl 10% EC at 24 h and 48 h was determined as 698.232 (563.638 - 864.968) µg/bee. Contact: The LD ₅₀ value with its respective 95% lower and upper confidence limits of quizalofop-p-ethyl 10% EC at 24 h and 48 h was determined as 796.159 (610.942 - 1037.528) µg/bee.
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Mutagenicity

Earthworm: The 14-day LC₅₀ value for quizalofop-p-ethyl 10% EC with 95% lower and upper confidence

limit was 240.991 (225.944 and 257.040) mg/kg dry weight of the artificial soil.

The LD₅₀ to Japanese quail (*Coturnix japonica*) is greater than 2000.0 mg/kg body weight.

Micronucleus test: Quizalofop-p-ethyl 10% EC does not have micronucleus induction potential in male mice.

Ames test: Quizalofop-p-ethyl 10% EC is concluded to be non-mutagenic in the Bacterial Reverse

Mutation Test using *Salmonella typhimurium*.

Transformation in soil

Quizalofop-p-ethyl 10% EC does not have a long-term influence on the carbon transformation in soil.

Quizalofop-p-ethyl 10% EC does not have a long-term influence on the nitrogen transformation in the soil.

13. Disposal considerations

Do not contaminate water, food, or feed by storage or disposal.

Product

Observing the rules in force and, if necessary, after consulting the person responsible for the disposal and the competent authority, the product can be taken to a spillway or to an incineration plant.

Contaminated packaging

Vacate the remaining container. Flush the containers three times. Do not reuse empty containers.

Dispose of as unused product.

14. Transport information

Transportation of Dangerous Goods (TDG - Canada):

Not regulated by TDG when transported solely on land by road or railway vehicle.

IATA/ICAO (Air transport)

UN Number 3334

Proper shipping name AVIATION REGULATED LIQUID, N.O.S.

Hazard class 9

Packing group III

IMDG (Marine transport)

UN Number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9

Packing group III

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Marine pollutantYes

15. Regulatory information

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

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. These 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:

Danger – Corrosive to eyes

Skin irritant

Potential skin sensitizer

16. Other information

Issue date	19-November-2025
Revision date	19-November-2025
Version number	1.1
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.
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