



Basket 2XL
Safety Data Sheet

Issue Date: 2019-09-23

Supersedes Date: N/A

{Reserved}

1. Identification

Product Name: Basket 2XL

PCP Registration No.: 33560

Refer to the approved product label for handling and use instructions.

Product Type: Herbicide

Supplier: Nufarm Agriculture Inc.
5101, 333 - 96th Ave NE
Calgary, Alberta T3K 0S3, Canada
1-800-868-5444

Telephone Numbers: 24 Hour Emergency Response Number, Chemtrec, 1-800-424-9300.
For medical emergencies, ProPharma Group, 1-877-325-1840.
For product and use information, Nufarm Agriculture Inc.,
1-800-868-5444.

2. Hazard Identification

Classified according to UN GHS Version 5.

Physical Hazards:

None

Health Hazards:

Skin irritation - Category 2

Eye irritation - Category 2A

Skin sensitisation - Sub-category 1B

Carcinogenicity - Category 2

Reproductive toxicity - Category 1B

Specific target organ toxicity - single exposure - Category 3

Aspiration hazard - Category 1

Environmental Hazards:

Hazardous to aquatic environment, acute Category 1

Hazardous to aquatic environment, chronic Category 1

Signal Word:

DANGER

Hazard Statements:

Issue Date: 2019-09-17

Supersedes Date: N/A

May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. May damage fertility or the unborn child.



Precautionary Statements:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- Wash skin thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear eye protection/ face protection.
- Wear protective gloves.
- Use personal protective equipment as required.

3. Composition / Information on Ingredients

Hazardous Components	CAS No.	Wt. %
Oxyfluorfen	42874-03-3	22.3
Other ingredients (proprietary)	Multiple	

4. First Aid Measures

If swallowed, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

Note to physician: No specific antidote. Treat symptomatically. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. If lavage is performed, suggest endotracheal and esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Maintain adequate ventilation and oxygenation of the patient.

5. Fire-fighting Measures

Extinguishing Media: Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, foam, water fog.

Special Firefighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Consider feasibility of a controlled burn to minimize environment damage. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS.

Flash Point:..... >87°C

Conditions of Flammability: Flammable liquid above 87C

Hazardous Decomposition Products: ... Under fire conditions, may produce gases such as oxides of carbon and nitrogen. Dense smoke is produced when product burns.

National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: Health: 3 Flammability: 1 Reactivity: 0
Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

6. Accidental Release Measures

Personal Precautions: Wear protective equipment to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill. If material is leaking from a container, stop the leak only if this can be done safely. See Personal Protection information in Section 8.

Environmental Precautions: In the event of a major spill, prevent spillage from entering drains or water courses.

Methods for Containment: Stop leak if safe to do so and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. Launder protective clothing before storage or re-use.

Issue Date: 2019-09-17

Supersedes Date: N/A

Methods for Cleanup and Disposal: Pump free liquid into an appropriate container. Absorb residual with inert absorbent material. Wash entire spill area with a detergent slurry, absorb and sweep into container for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. Handling and Storage

Handling: Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

STORAGE:

Store in a dry place. Store in original container. Keep container tightly closed. Do not store near food, foodstuffs, drugs or potable water supplies. Make sure that the product does not come into contact with strong acids, strong bases or strong oxidizing agents.

8. Exposure Controls / Personal Protection

Engineering Controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Skin Protection: Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). Styrene/butadiene rubber. Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). **NOTICE:** The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Issue Date: 2019-09-17

Supersedes Date: N/A

The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Exposure Guidelines:

Component	TWA*	STEL**	Reference/Note
Oxyfluorfen	0.2 mg/m ³	NE	

*Time-weighted Average, 8-hour unless otherwise noted.

**Short Term Exposure Limit

NE = Not Established

Refer to approved product label for additional exposure control guidance.

9. Physical and Chemical Properties
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NOTE: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification. If no value is determined for the formulation, the value listed is the most relevant value of the predominant ingredient(s).

Appearance (physical state, colour, etc.)	Yellow to brown liquid
Odour	Floral
Odour threshold	not available
pH	7.22
Melting point / Freezing point	not available
Initial boiling point and boiling range	not available
Flash point	>87 °C
Evaporation rate	not available
Flammability (solids, gases)	Flammable
Upper / Lower flammability or explosive limits ...	not available
Vapour pressure	0.29 hPa at 20 °C
Vapour density	5.2
Relative density	1.077 @ 20 °C
Solubility(ies)	Emulsifiable in water
Partition coefficient: n-octanol/water	not available
Autoignition temperature	346 °C
Decomposition temperature	290 °C
Viscosity (dynamic)	5.9 mPa.s at 39.9 °C

10. Stability and Reactivity

Reactivity: Not reactive.

Chemical Stability: Stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Polymerization will not occur.

Conditions to Avoid: Some components of this product can decompose at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

Issue Date: 2019-09-17

Supersedes Date: N/A

Incompatible Materials: Avoid contact with strong acids, bases amines, oxidizing agents, halogens and sodium hypochlorite.

Hazardous Decomposition Products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide. Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides. Toxic gases are released during decomposition.

11. Toxicological Information

Likely Routes of Exposure: Inhalation, Skin contact, Eye contact

Eye Contact: May cause moderate eye irritation which may be slow to heal. May cause slight corneal injury.

Skin Contact: Brief contact may cause severe skin irritation with pain and local redness. May cause drying and flaking of the skin. Prolonged contact may cause skin irritation, even a burn.

Ingestion: Low toxicity if ingested. May be harmful if swallowed in large amounts.

Inhalation: No adverse effects are anticipated from single exposure to mist. Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.

Symptoms of Exposure: None expected.

Toxicological Data:

Data from laboratory studies conducted are summarized below:

Oral: Rat LD₅₀: 3,129 mg/kg (female)

Dermal: Rat LD₅₀: >5,000 mg/kg

Inhalation: Rat 4-hr LC₅₀: >5.12 mg/L (No mortality at highest dose tested)

Eye Irritation: Rabbit: Irritating

Skin Irritation: Rabbit: Irritating

Skin Sensitization: Has caused allergic skin reactions when tested in guinea pigs.

Subchronic (Target Organ) Effects: In animals, effects have been reported on the following organs: Liver. Blood. Spleen.

Carcinogenicity / Chronic Health Effects: An increase in spontaneously occurring tumors observed in mice is of questionable relevance. No increases in tumors were observed in rats.

Reproductive Toxicity: In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

Developmental Toxicity: Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

Genotoxicity: Oxyfluorfen does not present a genetic hazard.

Assessment Carcinogenicity: None listed with ACGIH, IARC, NTP or OSHA.

12. Ecological Information

Ecotoxicity: Oxyfluorfen is toxic to fish and aquatic invertebrates but not considered toxic to birds, bees or worms.

From studies conducted on oxyfluorfen active ingredient:

Acute toxicity to fish

Material is very highly toxic to aquatic organisms on an acute basis (LC₅₀/EC₅₀ <0.1 mg/L in

Issue Date: 2019-09-17

Supersedes Date: N/A

the most sensitive species).

LC50, Rainbow trout (*Oncorhynchus mykiss*), static test, 96 Hour, 0.25 mg/l

Acute toxicity to aquatic invertebrates

EC50, water flea *Daphnia magna*, 48 Hour, 0.072 mg/l

Acute toxicity to algae/aquatic plants

EbC50, diatom *Navicula* sp., static test, 96 Hour, Biomass, 0.031 mg/l, OECD Test Guideline 201 or Equivalent

Chronic toxicity to fish

NOEC, *Pimephales promelas* (fathead minnow), flow-through test, 33 d, survival, 0.038 mg/l

NOEC, *Pimephales promelas* (fathead minnow), flow-through test, 265 d, survival, 0.005 mg/l

NOEC, *Cyprinodon variegatus* (sheepshead minnow), flow-through test, 34 d, growth, 0.0047 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, water flea *Daphnia magna*, flow-through test, 21 d, 0.013 mg/l

Toxicity to Above Ground Organisms

Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).

Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

LD50, *Colinus virginianus* (Bobwhite quail), > 2,150 mg/kg

LC50, *Anas platyrhynchos* (Mallard duck), 8 d, > 5,000 mg/kg

oral LD50, *Apis mellifera* (bees), 48 Hour, > 100 micrograms/bee

contact LD50, *Apis mellifera* (bees), 48 Hour, > 100 micrograms/bee

dietary LC50, *Colinus virginianus* (Bobwhite quail), > 5,000 mg/kg

Environmental Fate:

Oxyfluorfen is persistent and relatively immobile in soil. The most likely route of dissipation is soil binding. Laboratory data suggest that once the soilbound oxyfluorfen reaches deep or turbid surface water it will persist since it is stable to hydrolysis and since light penetration would be limited; however, it may degrade by photolysis in clear, shallow water. Oxyfluorfen can contaminate surface water through spray drift and runoff; however, it is unlikely to contaminate ground water because it is relatively immobile in the soil column; therefore, the likelihood of leaching is small. No degradates were identified, and therefore, only the parent, oxyfluorfen, is of toxicological concern for risk assessment.

13. Disposal Considerations

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Disposal should be made in accordance with federal, provincial and local regulations.

Do not reuse container for any purpose. If applicable, return container in accordance with return program. If a recyclable container, dispose of at a container collection site. Contact local distributor, dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site, triple or pressure rinse the empty container adding rinsings to spray tank, and make container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Issue Date: 2019-09-17

Supersedes Date: N/A

14. Transport Information

Canadian TDG Description (Road & Rail):

UN 3082, Environmentally hazardous substance, liquid, n.o.s.,
(oxyfluorfen), 9, III, Marine Pollutant

United States DOT Description:

UN 3082, Environmentally hazardous substance, liquid, n.o.s.,
(oxyfluorfen), 9, III, Marine Pollutant

15. Regulatory Information

Pest Control Products Act Registration Number: 33560

OPAC Schedule: N/A

Read the approved 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. Following is the hazard information required on the pest control product label:



DANGER POISON
SKIN IRRITANT
EYE IRRITANT
POTENTIAL SKIN SENSITIZER

WHMIS exempt.

16. Other Information

This Safety Data Sheet (SDS) is designed to comply with the Globally Harmonized System (GHS) of classification, and the *Hazardous Products Regulations*.

This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in

Basket 2XL
Safety Data Sheet
{Reserved}

Issue Date: 2019-09-17

Supersedes Date: N/A

activities generally other than product use. The product labeling provides that information specifically for product use as intended.

Company and published information is used in the development of this SDS. The information herein is presented in good faith and believed accurate at the date of publication. However, no warranty, expressed or implied, is given.

Revisions to the last issue: New

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