



ThunderHawk EZ
Safety Data Sheet
{Reserved}

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ThunderHawk EZ
PCP Registration No.: 35502 (aka NFA-0140204)
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
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. HAZARDS IDENTIFICATION

HEALTH HAZARDS:

Carcinogen Category 2

ENVIRONMENTAL HAZARDS:

Toxic to aquatic environment, acute Category 1

SIGNAL WORD: WARNING

HAZARD STATEMENTS

Potential skin sensitizer. May be harmful if swallowed. May be harmful if inhaled.



PRECAUTIONARY STATEMENTS

Potential skin sensitizer. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. After use wash hands and other exposed skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	% BY WEIGHT
MCPA 2-Ethylhexyl Ester	29450-45-1	30.93-32.85
Pyraflufen-ethyl	129630-19-9	0.594-0.726
Florasulam	145701-23-1	0.50-0.61

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Solvent Naptha (Petroleum), Heavy Aromatic
Other Ingredients

64742-94-5
Trade Secret

43.8-48.6
Trade Secret

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. 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.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. If symptoms develop, get medical advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center 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.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water fog, alcohol foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Firefighters should wear NIOSH approved self-contained breathing apparatus and full firefighting turn out gear. Dike area to prevent runoff and contamination of water sources. Do not use a solid water stream as it may scatter and spread fire. Evacuate area. Do not allow run-off from firefighting to enter drains or water courses. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Hazardous Decomposition Materials (Under Fire Conditions): May produce toxic gases.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: Pump any free liquid into an appropriate closed container. Collect washings for disposal. Clean contaminated area such as hard surfaces with detergent and water,

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collecting cleaning solution for proper 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:

Avoid contact with skin, eyes, and clothing. Wear goggles or face shield during mixing/loading. Avoid creating and breathing spray mists. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/Personal Protective Equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE:

Store in a cool, dry place. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Personal Protective Equipment:

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves (made of any waterproof material, section category A). An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Exposure Guidelines:

Contains no substances with established occupational exposure limit values.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Light yellow
liquid

Odor:

Mild, aromatic

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Odor threshold:	No data available
pH:	4.13, 1% In water
Melting point/freezing point:	No data available
Initial boiling point and boiling range	No data available
Flash point:	> 101.3°C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	1.030 at 20°C
Water Solubility(ies):	No data available
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	11.45 cS (20°C)

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.

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions.

Conditions to Avoid: Excessive heat. Do not store near heat or flame.

Incompatible Materials: Strong oxidizing agents: bases and acids.

Hazardous Decomposition Products: Under fire conditions may produce gases such as hydrogen chloride and oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, ingestion, skin and eye contact

Symptoms of Exposure: Eye irritation.

Eye Contact: Mildly irritating to the eye.

Skin Contact: Not a skin irritant.

Ingestion: LD₅₀ 3129 mg/kg

Inhalation: LC₅₀ > 2.06 mg/L (4h exposure)

Toxicological Data:

Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. High concentrations of MCPA may cause severe irritation

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to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low-blood pressure and unconsciousness.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Data are from laboratory studies conducted on MCPA-2-ethylhexyl technical.

Aquatic Invertebrate: 48-Hour EC50 (mg/L) 0.28 (Daphnia)

Fish: 96-Hour LC50 (mg/L) 3.2 (Rainbow Trout), > 3.2 (Bluegill Sunfish)

Algae: EC50 (mg ae/L) 0.25 (Selenastrum), 1.2 (Navicula), 0.085 (Skeletonema)

Birds: Oral LD50 (mg ae/kg) >2250 (Bobwhite), Dietary LDD50 > 3800 (Bobwhite), > 930 (Mallard) (mg ae/kg bw/d)

Bees: Oral LD50 > 250 µg 500 g/L MCPA 2-EHE formulation/bee

Bees: Contact LD50 > 210 µg 500 g/L MCPA 2-EHE formulation/bee

Data are from laboratory studies conducted on pyraflufen-ethyl technical.

Aquatic Invertebrate: 48-Hour EC50 (mg/L) > 0.082 (Daphnia)

Fish: 96-Hour LC50 (mg ae/L) > 0.1 (Rainbow Trt), > 0.085 (Bluegill), > 0.056 (Sheepshead)

Algae: EC50 (mg/L) 0.00031 (Selenastrum), 0.0016 (Navicula)

Birds: Oral LD50 (mg/kg) > 2000 (Bobwhite), Dietary LC50 > 5000 (Mallard, Bobwhite)

Bees: Oral and Contact LD50 > 112 µg/bee (oral), > 100 µg/bee (contact)

Data are from laboratory studies conducted on florasulam technical.

Aquatic Invertebrate: 48-Hour EC50 (mg/L) > 292 (Daphnia)

Fish: 96-Hour LC50 (mg/L) > 96 (Rainbow Trout), > 98 (Bluegill Sunfish)

Algae: EC50 (mg ae/L; 72h) 8.94 µg/L

Birds: Oral LD50 (mg/kg) 1046 (Bobwhite), Dietary LDD50 > 5000 (Bobwhite), > 5000 (Mallard) (mg/kg bw/d)

Bees: Oral LD50 > 100 µg

Bees: Contact LD50 > 100 µg

Persistence and Degradability: MCPA 2EH rapidly hydrolyzes to parent MCPA acid. MCPA is microbially degraded with typical half-life (ester and acid) of 5 to 20 days. Persistent in anaerobic environments. Pyraflufen-ethyl dissipates quickly by biotransformation in both soil and water, having a half-life of less than one day. Some transformation products of pyraflufen-ethyl are persistent. Florasulam is expected to biodegrade only very slowly (in the environment) and fails to pass OECD/EEC tests for ready biodegradability.

Mobility in Soil: MCPA has moderate to high mobility potential, but is rapidly degraded. Transformation products of pyraflufen-ethyl are immobile. Florasulam has very high mobility potential.

Bioaccumulation Potential: Low for all.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

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Dispose of in accordance with local regulations.

Container Handling and Disposal:

Do not cut or weld container. Do not reuse container for any purpose.

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this SDS.

DOT:

<119 gallons: Compound weed killing liquid, not DOT regulated

>=119 gallons: UN3082, Environmentally hazardous substances, liquid, n.o.s., (MCPA-2-ethylhexyl technical), 9, III, Marine Pollutant

IMDG:

UN3082, Environmentally hazardous substances, liquid, n.o.s., (MCPA-2-ethylhexyl technical), 9, III, Marine Pollutant

IATA:

UN3082, Environmentally hazardous substances, liquid, n.o.s., (MCPA-2-ethylhexyl technical), 9, III, Marine Pollutant

15. REGULATORY INFORMATION

Pest Control Products Act Registration Number: 35502

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:

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

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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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