



**Nufarm Enhance
Safety Data Sheet**
{Reserved}

Issue Date: 2017-12-20

Supersedes Date: 2017-05-17

1. Identification

Product Name: Nufarm Enhance

PCP Registration No.: 29952

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

Product Type: Adjuvant, for use with various herbicides

Supplier: Nufarm Agriculture Inc.
Suite 350, 2618 Hopewell Place NE
Calgary, Alberta, T1Y 7J7, 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 3

Environmental Hazards:

None

Signal Word:

WARNING

Hazard Statements:

Causes mild skin irritation.

Precautionary Statements:

Causes mild skin irritation. Avoid contact with skin, eyes and clothing. Wear coveralls or a long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. Remove and wash contaminated clothing before reuse. After use, wash hands and other exposed skin.

Avoid breathing spray mist. Use only outdoors or in a well-ventilated area.

3. Composition / Information on Ingredients

Hazardous Components	CAS No.	Wt. %
Non-hazardous ingredients	Not applicable	100

Content as Expressed on Product Label
Triglyceride ethoxylate 10 POE ... 80%

4. First Aid Measures

If swallowed, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre 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 15–20 minutes. Call a poison control centre or doctor for treatment advice.

In case of eye contact, 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.

5. Fire-fighting Measures

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

Special Firefighting Procedures: Firefighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Minimize and contain water runoff.

Flash Point:..... >93 C

Conditions of Flammability: Not classed as a combustible liquid, but may burn under fire conditions.

Hazardous Decomposition Products: ... Under fire conditions, may produce gases such as carbon oxides and possibly other irritating gases.

National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: Health: 0 Flammability: 1 Reactivity: 0

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

6. Accidental Release Measures

Use safety equipment and procedures appropriate to the size of the spill. Keep unnecessary people away. Avoid runoff to natural waters and sewers. Surround and absorb spills with inert material such as perlite, sawdust, clay granules, vermiculite, sand or dirt. Contain all affected material in a closed, labeled container for proper disposal. Isolate from other waste materials.

Clean contaminated area such as hard surfaces with detergent and water, collecting cleaning solution for proper disposal. Large spills to soil or similar surfaces may necessitate removal of top soil.

7. Handling and Storage

Handling: Avoid contact with skin, eyes and clothing. After use, wash hands and other exposed skin. Wear coveralls or a long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Avoid breathing spray mist.

Storage: Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Store in a cool, dry, well-ventilated area. Keep away from heat, sparks and flame. Store between 5C and 40C.

8. Exposure Controls / Personal Protection

Engineering Controls: Use only outdoors or in a well-ventilated area.

Personal Protective Equipment: Coveralls or a long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal.

Exposure Guidelines:

Component	TWA*	STEL**	Reference/Note
Non-hazardous ingredients	NE	NE	None found

*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.

If misting conditions exist, use NIOSH/MSHA-approved respirator for organic vapours.

Use chemical safety goggles or face shield when there is potential for eye contact.

9. Physical and Chemical Properties

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.

Appearance (physical state, colour, etc.) clear yellow liquid
Odour fatty acid odour
Odour threshold not available
pH 6 to 7
Melting point / Freezing point not available
Initial boiling point and boiling range not available
Flash point >93C
Evaporation rate not available
Flammability (solids, gases) not applicable

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Upper / Lower flammability or explosive limits ... not available
Vapour pressure not available
Vapour density not available
Relative density 0.97 @ 20C
Solubility(ies) product is emulsifiable in water
Partition coefficient: n-octanol/water not available
Autoignition temperature not available
Decomposition temperature not available
Viscosity not available

10. Stability and Reactivity

Reactivity: Not reactive.

Chemical Stability: Stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Prolonged storage at temperatures above 40C. Do not store near heat or flame.

Incompatible Materials: Strong oxidizing agents, such as hydrogen peroxide, bromine and chromic acid.

Hazardous Decomposition Products: Under fire conditions, may produce gases such as carbon oxides and possibly other irritating gases.

11. Toxicological Information

Likely routes of exposure: Inhalation, ingestion, skin and eye contact.

Eye contact: May cause mild eye irritation.

Skin contact: May cause mild to moderate skin irritation.

Ingestion: May cause gastrointestinal tract irritation and irritation to the throat.

Inhalation: Mists and vapours may cause irritation to the respiratory tract.

Medical Conditions Aggravated by Exposure: Skin exposure may aggravate preexisting skin conditions. Inhalation of mist may aggravate preexisting respiratory conditions.

Toxicological Data:

Acute oral LD₅₀ (mg/kg) not available

Acute dermal LD₅₀ (mg/kg) not available

Acute inhalation LC₅₀ (mg/l) not available

Skin corrosion/irritation May cause mild to moderate skin irritation

Serious eye damage/irritation May cause mild eye irritation

Respiratory or skin sensitization ... No information available

Germ cell mutagenicity No information is available and no adverse mutagenic effects are anticipated.

Carcinogenicity The ingredients in this product are not classified as carcinogenic by the ACGIH, IARC, OSHA or the NTP.

Reproductive toxicity No information is available and no adverse reproductive effects are anticipated.

12. Ecological Information

No specific data available. Product is potentially harmful to aquatic invertebrates and fish.

Persistence and Degradability: No information available.

Mobility in Soil: No information available.

Bioaccumulation Potential: No information available.

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.

14. Transport Information

Canadian TDG Description (Road & Rail): Not regulated for transport by road/rail.

United States:

DOT Description:

Non Regulated

IMDG

Non Regulated

IATA

Non Regulated

15. Regulatory Information

Pest Control Products Act Registration Number: 29952

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

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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:

WARNING, CONTAINS THE ALLERGEN SOY
CAUTION – SKIN IRRITANT

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.

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: Addition of PMRA guidance info to Section 15.

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