

Material Safety Data Sheet

Enhance Spray Adjuvant

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Enhance Spray Adjuvant

Norac Concepts Inc.
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Emergency telephone number: All hours, 613-787-5620, **ONLY** for health and environmental information.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients	% (w/w)	ACGIH TLV	CAS No.
Non hazardous ingredients	100	No Data	Mixture

Synonyms: None known.

Chemical name: Mixture of Surfactants, Fatty Acids and Coupling Agents

Product use: Agricultural Adjuvant

Registration number: 29270 Pest Control Products Act.

3. HAZARDS IDENTIFICATION

Physical Properties: Clear yellow liquid with a fatty acid odour;

Route of entry: Eyes, skin and inhalation.

Symptoms of acute exposure: May cause irritation to the eyes, skin and respiratory tract.

Effects of chronic exposure: None known

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. Call 911 **IMMEDIATELY** for medical assistance. Give artificial respiration **ONLY** if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing **AND** no pulse.

Skin contact: Remove contaminated clothing immediately. Flush skin with running water for a minimum of 20 minutes. If irritation persists obtain medical attention.

Eye contact: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists obtain medical attention.

Ingestion: Call 911 **IMMEDIATELY** for medical assistance. If person is alert and not convulsing, rinse mouth out and give 1 cup of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in vomit, rinse mouth and administer more water.

Notes to Physician: There is on specific antidote, treat symptomatically

5. FIRE FIGHTING MEASURES

Flash point: > 93°C (PM closed cup).

Autoignition temperature: No data.

Flammable limits (lower): Not applicable.

Flammable limits (upper): Not applicable.

Extinguishing media: For large fires, apply aqueous film forming foam or water in the form of a fog. For small fires, use carbon dioxide or dry chemical. Water stream may spread flames.

Fire-fighting procedures: Wear self-contained breathing apparatus and impervious clothing. Minimize the amount of water used and contain the run-off from entering water supplies or the environment by dyking.

Other fire and explosion hazards: None known

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear personal protective equipment as described in Section 8.

Environmental precautions: Stop any further release to land or water. For water, utilize damming and/or water diversion to minimize spread of contamination to the environment.

Spills, leaks or releases: Absorb spilled material with a suitable absorbent. Wash hard surfaces with detergent and water, then absorb with absorbent. Collect any contaminated soil, water and absorbent and place in a waste container for proper disposal. Notify applicable government authority if release is reportable or could adversely affect the environment.

Deactivating chemicals: None known.

7. HANDLING AND STORAGE

Handling procedures: Use only with adequate ventilation and avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after use. If clothing becomes contaminated, wash thoroughly before re-use.

Storage requirements: Store in a cool, dry and well-ventilated area. Keep away from heat, sparks and flame. Keep containers closed. Keep out of reach of children and pets.

Storage temperature: Store between 5°C and 40°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection: Chemical safety goggles when there is potential for eye contact.

Skin protection: Chemical-resistant gloves and protective clothing should be impervious under conditions of use.

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

Other protective equipment: None required.

Engineering controls: Provide local exhaust or ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear yellow liquid.

Odour: Fatty acid odour.

Specific gravity: 0.97 at 20°C.

Boiling point: Not determined.

Melting point: Not determined.

Solubility (water): Dispersible.

Solubility (other): No data.

pH: 6 to 7.

% volatile: 5%.

Evaporation rate (ether=1): Not determined.

Vapour pressure (mm Hg at 20°C): Not determined.

Vapour density (air=1): No determined.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous polymerization: Will not occur.

Conditions to avoid: Prolong storage at temperatures above 40°C.

Incompatibility with other substances: Strong oxidizing agents, such as Hydrogen Peroxide, Bromine and Chromic Acid.

Hazardous decomposition products: Thermal decomposition may produce carbon oxides and possibly irritating gases.

11. TOXICOLOGICAL INFORMATION

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

Skin contact: May cause mild to moderate skin irritation.

Eye contact: May cause mild eye irritation.

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

Chronic effects: None known.

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

12. ECOLOGICAL INFORMATION

Ecotoxicological information: Not determined.

Environmental effects: Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Persistence and degradation: Not known.

13. DISPOSAL CONSIDERATIONS

Container Disposal: Non-refillable container. Do not reuse. Triple rinse container and place rinse water into the spray tank. If available, offer for recycling or puncture and dispose of in a sanitary landfill, or by other procedures approved by provincial and local authorities.

Waste Disposal: Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage or to sewer systems.

14. TRANSPORT INFORMATION

Canadian TDG classification: Not regulated.

Transportation emergency telephone number: 613-787-5620.

15. REGULATORY INFORMATION

WHMIS classification: This product is registered under the *Pest Control Product Act* and is exempt from the requirements of WHMIS.

16. OTHER INFORMATION

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Norac Concepts Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This material safety data sheet is valid for three years.

Prepared by: Norac Concepts Inc.
Technical Department