

Material Safety Data Sheet

Pro-Surf II

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Pro-Surf II Non-Ionic Liquid Spreader/Activator**Norac Concepts Inc.**
P.O. Box 31097, Guelph, ON N1H 8K1
519-821-3633**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	Not listed	Mixture

Synonyms: Proprietary mixture.**Chemical name:** Non-ionic surfactant mixture.**Product use:** Agricultural non-ionic surfactant.**Registration number:** 28327 Pest Control Products Act.

3. HAZARDS IDENTIFICATION

Summary: Hazardous properties of all ingredients have been considered in the preparation of this MSDS. Read the entire MSDS for the complete hazard evaluation of this product.**Physical Properties:** Clear to slightly hazy yellow liquid with a mild sweet odour.**Routes of entry:** Eyes, skin, ingestion and inhalation.**Effects of acute exposure:** Irritating to eyes, may cause irritation to skin and respiratory system.**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 no specific antidote, treat symptomatically

5. FIRE AND EXPLOSION HAZARD DATA

Flash point: > 93.3°C (PMCC).**Autoignition temperature:** No data.**Flammable limits (lower):** No data.**Flammable limits (upper):** No data.**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: Thermal decomposition may generate toxic fumes of carbon oxides, aldehydes and ketones.

6. ACCIDENTAL RELEASE MEASURES

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

Spills, leaks or releases: For release to land, stop any further release and spread of contamination and absorb spilled material with a suitable absorbent. Wash hard surfaces with detergent and water, then absorb with suitable absorbent. For release to water, stop any further release and utilize damming and/or water diversion to minimize the spread of contamination. Collect the spilled material, any contaminated soil, water and absorbent, then 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 INFORMATION

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. Spilled material maybe slippery; clean up spills immediately before walking in spill area.

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: Protect from freezing. Do not expose to temperatures above 32°C for extended periods.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection: Chemical safety goggles.

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 to slightly hazy yellow liquid.

Odour: Mild sweet odour.

Specific gravity: 1.06 at 25°C.

Boiling point: Not determined.

Melting point: Not determined.

Solubility (water): Miscible.

Solubility (other): No data.

pH: 5.5 to 6.5.

% volatile: <15%.

Evaporation rate (ether=1): Not determined.

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

Vapour density (air=1): >1.

10. STABILITY AND REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Hazardous polymerization: Will not occur.

Conditions to avoid: None known.

Incompatibility with other substances: Strong oxidizing agents.

Hazardous decomposition products: None known.

11. TOXICOLOGICAL INFORMATION

Summary: Irritating to eyes, may cause irritation to skin and respiratory system.

Inhalation: Vapours or mist in high concentrations may cause irritation of the nose, throat and respiratory tract.

Skin contact: Long- and short-term exposure may cause irritation, redness and swelling.

Eye contact: May cause severe irritation.

Ingestion: Contains diethylene glycol, which is toxic when ingested. A lethal dose for an adult is 1–2 mL/kg. Symptoms include headache, weakness, confusion, dizziness, staggering, slurred speech, loss of co-ordination, nausea, vomiting, increased heart rate, decreased blood pressure, difficulty breathing, pulmonary oedema, unconsciousness, convulsions, collapse and coma. Symptoms may be delayed.

Chronic effects: None known.

Carcinogenicity: Ethoxylated products may contain residual amount of ethylene oxide (< 1 ppm). Ethylene oxide is suspected of being a human carcinogen and toxic to the reproductive system. Ethylene oxide has been shown to cause tumours in laboratory animals.

12. ECOLOGICAL INFORMATION

Ecotoxicological information: None known.

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

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.