Material Safety Data Sheet

Flat-Out

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Flat-Out

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.
Dimethylsiloxane	18	10 mg/m^3	Not listed
Proprietary ingredients	82	No data	Mixture

Synonyms: None known.
Chemical name: Dimethylsiloxane.
Product use: Agricultural antifoam.

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.
Emergency overview: May cause irritation to the eyes and skin.

4. FIRST AID MEASURES

Inhalation: Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical advice **IMMEDIATELY**.
Skin contact: Flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention **IMMEDIATELY**.
Eye contact: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention **IMMEDIATELY**.
Ingestion: If victim is alert and not convulsing, rinse mouth out and give 200-300 mL (1 cup) of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention **IMMEDIATELY**.

5. FIRE AND EXPLOSION HAZARD DATA

Flash point: >93.3°C.
Autoignition temperature: No data.
Flammable limits (lower): No data.
Flammable limits (upper): No data.
Extinguishing media: Use extinguishing media appropriate to the source of the fire.
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: May produce toxic gases, including formaldehyde. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and a potential cancer hazard. Consider evacuation of bystanders from areas affected by dense smoke. Contain fire-fighting water for disposal if contaminated with product.

6. ACCIDENTAL RELEASE MEASURES

Spills, leaks or releases: Wear personal protective equipment. For release to land, stop any further release and spread of contamination, 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: Wash surfaces with heavy duty detergent and water to reduce slip hazard.

7. HANDLING AND STORAGE INFORMATION

Handling procedures: Use only with adequate ventilation. 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, well-ventilated area. Keep containers closed. Keep out of reach of children and pets.
Storage temperature: Do not allow the product to freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection: Use chemical safety goggles when there is a potential for eye contact.
Skin protection: Chemical-resistant gloves and protective clothing that is impervious under conditions of use.
Respiratory protection: NIOSH/MSHA-approved respirator equipped with pesticide cartridges. Normally not required.
Other protective equipment: Eye wash station.
Engineering controls: Provide local exhaust and/or adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky white liquid.
Odour: Slight odour.
Specific gravity: 1.01 at 25°C.
Boiling point: >100°C.
Melting point: No data.
Solubility (water): Miscible in water.
Solubility (other): No data.
pH: 6.0 to 8.0.
% volatile: Negligible.
Evaporation rate (ether=1): No data.
Vapour pressure (mm Hg at 20°C): No data.
Vapour density (air=1): No data.

10. STABILITY AND REACTIVITY DATA

Chemical stability: Stable at room temperature and storage conditions.
Hazardous polymerization: Will not occur.
Conditions to avoid: None known.
Incompatibility with other substances: Strong acids and oxidizers.
Hazardous decomposition products: Dimethylsiloxane can generate formaldehyde at temperatures above 150°C in the presence of oxygen.

11. TOXICOLOGICAL INFORMATION

Summary: May cause irritation to the eyes and skin.

Inhalation: If the product is heated causing vapours to be released or a mist to be produced, concentrates in the air may be attained that are sufficient to cause respiratory irritation.
Skin contact: Effects of short-term exposure are expected to be minimal. Some individuals may experience irritation to the skin.
Eye contact: Direct contact may cause eye irritation and discomfort. Corneal injury is unlikely.

Ingestion: No hazards are anticipated from swallowing small amounts incidental to normal handling operations.
Chronic effects: Based on available data, repeated exposures are not anticipated to cause any significant adverse effects.
Carcinogenicity: Polymethylsiloxane did not cause any cancer in long-term oral studies in animals. Malignancies have been reported in studies using routes of exposure not considered relevant to industrial handling.
Mutagenicity: In-vitro and animal mutagenicity studies have been negative.
Reproductive effects: In animal studies, dimethylsiloxane has been shown not to interfere with reproduction.

12. ECOLOGICAL INFORMATION

Ecotoxicological information: LC_{50} for zebra fish is 250 mg/L/96 hours. Acute oral LD_{50} for bobwhite quail is > 5000 mg/kg.
Environmental effects: Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

13. DISPOSAL CONSIDERATIONS

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: Not regulated.
NFPA hazard rating: Fire: 1; Health: 3; Reactivity: 1.

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.