

Material Safety Data Sheet

Alliance 400

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Alliance 400

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.
Phosphoric Acid	0.1 – 1.0	1 mg/m ³	7664-38-2
Ethylene Oxide (may be present in product)	Maximum 1 ppm	1 ppm	75-21-8

Synonyms: None known.

Chemical name: Aliphatic phosphate ester blend.

Product use: Agricultural compatibility agent for spray solutions.

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 severe eye irritation. May cause moderate irritation to the skin and the respiratory tract.

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: >65°C (PM closed cup).

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.

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 diking.

Other fire and explosion hazards: May be ignited by heat, sparks or flame. Vapour may travel to source of ignition and flash back. Container may explode in heat of fire.

6. ACCIDENTAL RELEASE MEASURES

Spills, leaks or releases: Wear personal protective equipment. 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, and 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.

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

Storage temperature: Store between 5 to 32°C for optimum storage stability.

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: Eye wash station.

Engineering controls: Provide local exhaust or ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber to gold liquid

Odour: Mild odour

Specific gravity: 1.12

Boiling point: No data

Melting point: Not determined

Solubility (water): Miscible

Solubility (other): No data

pH: No data

% volatile: >1%

Evaporation rate (ether=1): Not determined

Vapour pressure (mm Hg at 20°C): No data

Vapour density (air=1): No data

10. STABILITY AND REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Hazardous polymerization: Will not occur.

Conditions to avoid: Sources of excessive heat and ignition sources.

Incompatibility with other substances: Strong oxidizing, reducing agents and acids.

Hazardous decomposition products: May produce oxides of carbon and phosphorous oxides.

11. TOXICOLOGICAL INFORMATION

Summary: May cause severe eye irritation. May cause moderate irritation to the skin and the respiratory tract.

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

Skin contact: May cause moderate skin irritation and dermatitis.

Eye contact: Direct contact with the eyes may cause severe irritation, redness and/or swelling.

Ingestion: May cause visual impairment, convulsions, headaches and dizziness.

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

12. ECOLOGICAL INFORMATION

Ecotoxicological information: Concentrated material is highly toxic to fish.

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

Persistence and degradation: Not known.

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: D2B

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.