

Material Safety Data Sheet

Aqua-Stable

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Aqua-Stable

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.
Citric Acid	20 - 40		77-92-9

Synonyms: None known.

Chemical name: Proprietary mixture.

Product use: Agricultural water buffer and acidifier.

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 colourless to slightly yellow liquid with slight citric odour.

Route of entry: Eyes, skin and inhalation.

Effects 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 no specific antidote, treat symptomatically

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: 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 dyking.

Other fire and explosion hazards: Oxides of carbon and nitrogen may be produced in fire conditions..

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.

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

Storage temperature: Protect from freezing.

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: Clear colourless to slightly yellow liquid.

Odour: Slight citric odour.

Specific gravity: 1.14.

Boiling point: > 93 °C.

Melting point: Not determined.

Solubility (water): Soluble.

Solubility (other): No data.

pH: No data.

% volatile: None.

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 extreme heat.

Incompatibility with other substances: Strong oxidizers and metal nitrates. Contact with aluminum, copper alloys and nickel. Contact with aluminium evolves hydrogen.

Hazardous decomposition products: May produce oxides of carbon, nitrogen oxides and water vapour.

11. TOXICOLOGICAL INFORMATION

Summary: May cause severe irritation to eyes and irritation to the respiratory tract.

Inhalation: Mists may cause irritation to respiratory tract.

Skin contact: Repeated or prolonged exposure may cause skin irritation, pain, redness and dermatitis.

Eye contact: Direct contact with eyes may cause severe irritation, pain and redness. Prolonged or repeated exposure may cause mild burn.

Ingestion: Non toxic and practically harmless.

Chronic Health 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 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 system.

14. TRANSPORT INFORMATION

TDG classification: Not regulated.

Transportation emergency telephone number: 613-787-5620.

15. REGULATORY INFORMATION

WHMIS classification: Not regulated.

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.