1. PRODUCT IDENTIFICATION

Product Name

Emergency Phone: 1-609-683-5900 (U.S.A.)

AquaWorksTM Cold Concentrate

Medical Emergency Phone: 1-800-228-5635

Ext. 007 (U.S.A.)

2. COMPOSITION/INFORMATION ON INGREDIENTS

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear straw colored liquid.

No distinct odor.

Not a primary skin irritant.

May cause slight to moderate eye irritation.

Not a fire hazard.

Contains no ozone depleting substances.

Contains no volatile organic compounds with a vapor pressure ≥ 0.1 mm Hg at 20^{0} C.

No other significant health or environmental effects known or anticipated.

HMIS Rating	
Health	1
Fire	0
Reactivity	0

Potential Health Effects

EYE: Potential for moderate irritation. Effects will be minimized with washing.

SKIN CONTACT: May cause varying severities of irritation from repeated, prolonged, or occluded contact.

INGESTION: Would not be considered toxic. Ingestion may cause abdominal discomfort and irritation to the digestive tract.

INHALATION: Prolonged inhaling of mist may aggravate pre-existing upper respiratory disorders and cause irritation to the nose, throat and lungs.

SUBCHRONIC EFFECTS/CARCINOGENICITY: None known. Ingredients are not listed as carcinogens or potential carcinogens by IARC, NTP, OSHA, or ACGIH.

4. FIRST AID MEASURES

SKIN: Remove contaminated clothing. Wash exposed areas with a large amount of water. Wash clothing before reuse.

EYES: Immediately flush eyes with clean, flowing water, low pressure and luke warm if possible, occasionally lifting upper and lower eyelids. After one minute, remove contact lenses if present. Continue flushing for 15 minutes. Seek medical attention if irritation develops.

INHALATION: Move from area of exposure. Treat symptomatically. Seek medical attention if irritation develops or if person has difficulty breathing.

INGESTION: If large amounts are ingested and person is conscious, give two glasses of water to drink. **Do not attempt to give anything orally to an unconscious person.** Seek medical attention.

FLAMMABLE LIMITS

<u>NOTE TO PHYSICIAN</u>: Ingestion of large amounts may cause systemic alkalosis. Treatment based on judgement of physician in response to reactions of patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: Not Applicable
METHOD USED: Not Applicable
UFL: Not Applicable
UFL: Not Applicable

EXTINGUISHING MEDIA: Use extinguishing media for surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Carbon monoxide, carbon dioxide, and fumes of SO_x and NO_x may be generated by thermal decomposition. Wear self-contained breathing apparatus (SCBA) and full protective equipment (Bunker Gear).

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

Will create extremely slippery conditions if spilled. Close off area to traffic. Exercise proper cautions during clean-up. Large spills should be contained and treated to lower pH. Absorb using clay or commercial absorbent and dispose of in suitable waste containers as regulations permit (See Section 12). Flush residues to sewer or waste water system as local regulations permit. Prevent eye and skin contact by wearing appropriate protective equipment (See Section 8). Be sure cleaned area is dry or slip-free before reopening to traffic.

7. HANDLING AND STORAGE

Store in original containers away from incompatible materials (acids). Keep containers tightly closed. Prevent skin and eye contact during handling by wearing appropriate protective equipment (See Section 8).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: None under normal use conditions. If mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator.

PROTECTIVE GLOVES: Impervious gloves recommended to prevent skin contact during use or for cleaning up spills.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (cont'd)

EYE PROTECTION: Goggles recommended for transfer of solution or cleaning up of spills. Eyewash facility recommended in work area or in close proximity.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impermeable apron where splashing of solution cannot be avoided.

VENTILATION: No special requirements unless mists are generated, then use local exhaust ventilation.

PROTECTIVE WORK/HYGIENIC PRACTICES: No special requirements with respect to chemical exposure other than those noted above. Specific requirements with respect to equipment and specific applications are the responsibility of the user.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear straw colored liquid

ODOR: No distinct odor PHYSICAL STATE: Liquid pH Concentrate: 11.3 - 11.5 pH 10% SOLUTION: 11.0

VAPOR PRESSURE: Not determined BOILING POINT: 100-110⁰ C FREEZING POINT: -10⁰ C - 0⁰ C SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY (Water = 1): Approximately 1.05 @ 25⁰ C

APPARENT DENSITY: 8.66 lbs/gal @ 25⁰ C SURFACE TENSION: Not determined

VISCOSITY: <100 cps

VOLATILE ORGANIC COMPOUNDS: None $\leq C_{12}$ or with VP ≥ 0.1 mm Hg @ 20° C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. CONDITIONS TO AVOID: Acids

INCOMPATIBILITY WITH OTHER MATERIALS: Reacts with acids to release carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce carbon monoxide, carbon dioxide, and fumes of SO_x and NO_x .

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: No specific data available. Tests on similar formulations indicate that moderate irritation and corneal involvement are possible. These effects would be minimized and quickly reversible with immediate treatment. No permanent injury would be anticipated.

SKIN EFFECTS: No specific data available. Not considered a primary skin irritant based on testing of similar formulations. May be slightly irritating to humans under conditions of repeated or prolonged contact. Any irritant effect would not be expected to result in skin damage.

11. TOXICOLOGICAL INFORMATION (cont'd)

ACUTE ORAL EFFECTS: No specific data available. Would not be considered toxic based on testing of similar formulations having an LD_{50} (rat) > 5000 mg/kg.

INHALATION EFFECTS: No data available. LC_{50} expected to be > 2mg/l based on data on individual components and similar formulation. May cause irritation to upper respiratory tract if inhaled as a mist. Irritation would be expected to be transient with no permanent damage.

12. DISPOSAL CONSIDERATIONS

Dispose of spilled or waste product and other large amounts in accordance with all local, state and federal environmental regulations. State and local regulations may differ from federal. Be sure to consult with appropriate agencies for specific rules. Depending on size, empty containers may be rinsed thoroughly and either discarded in trash, recycled, or disposed of in licensed facility in accordance with existing local regulations and programs.

13. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated

TECHNICAL SHIPPING NAME: Shipped as AquaWorksTM Cold Concentrate.

D.O.T. HAZARD CLASS: None U.N./N.A. NUMBER: None

HAZARDOUS SUBSTANCE/RQ: None

D.O.T. LABEL: None D.O.T. PLACARD: None

14. MISCELLANEOUS INFORMATION

Additional Regulations

The ingredients in this product are reported in the U.S. EPA TSCA Inventory List.

The ingredients in this product are not listed as carcinogens or potential carcinogens by NTP Annual Report, IARC Group I or II, OSHA 29 CFR 1910, Subpart Z, and ACGIH Appendix A.

Contains no toxic chemicals subject to the reporting requirements of SARA Title III, Section 313. Contains no substances at levels that would be subject to CERCLA reporting requirements.

REASON FOR REVISION: Updated Section 9 - Physical and Chemical Properties.

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