



PsiMetric™

Material Safety Data Sheet Date Prepared: September 15, 2000 Supersedes Date: August 20, 1999

1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION

AQUATROLS CORPORATION OF AMERICA
5 NORTH OLNEY AVENUE
CHERRY HILL, NJ 08003
USA

Emergency Phone Numbers:

For emergencies involving a spill, leak, fire, exposure or accident, contact CHEMTREC (800-424-9300 within the United States or 703-527-3887 for international collect calls).

For Product Information: 856-751-0309 or www.aquatrols.com

Chemical Name or Synonym: Non-ionic surfactant blend, liquid media wetting agent

C.A.S. Number: Mixture – No single CAS number available.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	Weight%	**Exposure Limits**	
			OSHA Hazard	ACGIH/TLV
Non-ionic surfactant blend	Proprietary*	> 99	NO	Not established
Water	7732-18-5	< 1	NO	N/A
Dioxane	123-91-1	< 0.001	YES	90 mg/m ³
Ethylene Oxide	75-21-8	< 0.001	YES	1.8 mg/m ³
Propylene Oxide	75-56-9	< 0.001	YES	48 mg/m ³

* Trade secret as allowed by 29 CFR 1910.1200-48

3. HAZARDS IDENTIFICATION

A. Emergency Overview:

Physical Appearance and Odor: Hazy liquid, slight odor

Warning Statements: CAUTION: May cause irritation!

B. Potential Health Effects:

Primary Route of Entry: Routes of entry for liquids include eye and skin contact, ingestion and inhalation

Effect of Overexposure:

Acute Eye: Slightly irritating. Can cause redness or irritation.
 Acute Skin: Slightly irritating. May cause redness or irritation with prolonged contact.
 Acute Inhalation: Inhalation not likely. Mists may cause upper respiratory tract irritation.
 Acute Ingestion: Practically non-toxic. May cause gastrointestinal irritation, nausea, diarrhea, or vomiting.
 Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.



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4. FIRST AID MEASURES

EYE CONTACT: DO NOT RUB EYES. Immediately flush eyes with large amounts of water for 15 minutes lifting the lower and upper lids. Seek medical attention if necessary.

SKIN CONTACT: Remove contaminated clothing and immediately wash affected area with large amounts of water for at least 5 minutes. If irritation or redness persists, seek medical attention as needed.

IF SWALLOWED: If person is conscious, give 1-2 glasses of water to drink. Seek medical attention. Do not leave victim unattended. Induce vomiting only upon advice of a physician.

INHALATION: Not an expected route of exposure. If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if necessary.

Medical Conditions Possibly Aggravated by Exposure: Skin contact may aggravate existing skin conditions/diseases.

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote is available.

5. FIRE FIGHTING MEASURES

Flash Point: > 93°C (200°F) **Flammability Class:** WILL BURN **Method Used:** Pensky-Martens Closed Cup

Flammability Limits (vol/vol%): Lower: Not available Upper: Not available

Extinguishing Media:

Recommended:

Small fires – dry chemical, carbon dioxide

Large fires – alcohol foam, universal foam, water spray

Not Recommended:

Water jet (frothing possible)

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus (SCBA) and full protective clothing.

Unusual Fire and Explosion Hazards: Product will burn under fire conditions.

Hazardous Decomposition Materials (Under Fire Conditions): Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety: See Personal Protection information in Section 8.

Containment of Spill: Follow procedure described below.

Cleanup and Disposal of Spill: Control spill with dykes and absorb with absorbent pads or booms. If necessary, apply an inert granular or loose absorbent to spill. When adsorbed, sweep or otherwise collect into recovery drums and dispose of properly. See Waste Disposal information in Section 13.



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Environmental and Regulatory Reporting: Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperature: Not established.

Handling: Avoid direct or prolonged contact with eyes and skin. Avoid breathing vapors or mists.

Ethylene oxide may collect in container head space. Although concentrations are expected to remain below established exposure limits, provide adequate ventilation when accessing or working with open containers and tanks.

Storage: Store in tightly closed containers. Store in an area that is dry, well-ventilated, away from ignition sources, and away from incompatible materials. See Section 10 for Stability and Reactivity information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Exposure Guidelines: No exposure limits were found for this product or any of its' ingredients.

Engineering Controls: When engineering controls are mandated by use conditions or a potential for exposure exists, minimize exposure to employees with general area dilution or exhaust ventilation.

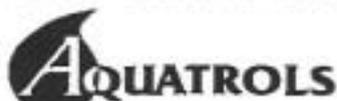
Respiratory Protection: When work conditions are such that aerosols or mists may be generated or present, use a suitable NIOSH/MSHA approved respirator. Under normal conditions with adequate ventilation, no protection is necessary.

Eye/Face Protection: Wear appropriate protective safety goggles/glasses as described in 29 CFR 1910.133. A full-face shield and eyewash station are recommended.

Skin Protection: Skin contact should be minimized through use of appropriate clothing and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance. USDA accepted Nitrile (CFR-20) or neoprene rubber (CFR-21) gloves are recommended.

Work Practice Controls Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material.

1. Do not store, use, and/or consume food, beverages, tobacco products, or cosmetics in area where this material is stored.
2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3. Wash exposed skin promptly to remove accidental splashes of contact with this material.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

Physical Appearance:	Hazy liquid
Odor:	Slight odor
pH:	5.0 – 7.0 (5% solution)
Specific Gravity:	1.02 – 1.04 g/ml @ 73°F (23°C)
Water Solubility:	Dispersible
Freezing Point Range:	< 68°F (20°C)
Boiling Point Range:	Not established
Vapor Pressure:	Not established
Vapor Density (air = 1):	Not established

10. STABILITY AND REACTIVITY

Chemical Stability:	This material is stable under normal handling and storage conditions described in Section 7.
Conditions to be Avoided:	Keep away from heat, sparks and open flames.
Materials/Chemical to be Avoided:	Avoid contact with strong oxidizing agents and strong bases.
The following Hazardous Decomposition Products might be Expected:	
Decomposition Type: Thermal	Oxides of carbon
Hazardous Polymerization:	Will not occur
Avoid the Following to Inhibit Hazardous Polymerization:	N/A

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: The following data is for similar or related products.

Toxicological Information and Interpretation: Eye – eye irritation, rabbit. Slightly irritating.

Acute Skin Irritation: The following data is for similar or related products.

Toxicological Information and Interpretation: Skin – skin irritation, rabbit. Slightly irritating.

Acute Dermal Toxicity:

Toxicological Information and Interpretation: No test data available for this product.

Acute Respiratory Irritation:

Toxicological Information and Interpretation: No test data available for this product.

Acute Inhalation Toxicity:

Toxicological Information and Interpretation: No test data available for this product.

Acute Oral Toxicity: The following data is for similar or related products.

Toxicological Information and Interpretation: LD₅₀ – lethal dose to 50% of test species, 5500 mg/kg, rat.

Chronic Toxicity:

Toxicological Information and Interpretation: This product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be "probable" or "suspected" human carcinogens.



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12. ECOLOGICAL INFORMATION

Ecotoxicity Information: No data available
 Environmental Fate Information: No data available
 Chemical/Physical Information: No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal: Any containers or equipment should be decontaminated immediately after use.
 EPA Hazardous Waste - NO

14. TRANSPORTATION INFORMATION

Transportation Status: The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation Shipping Name: NOT REGULATED

15. REGULATORY INFORMATION**Inventory Status:**

Inventory	Status
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	P
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

- Y: All ingredients are on the inventory.
 E: All ingredients are on the inventory or exempt from listing.
 P: One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.
 N: Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

FEDERAL REGULATIONS:

Inventory Issues: All functional components of this product are listed on the TSCA inventory.

SARA Title III Section 313: This product contains the following material regulated under SARA Title III Section 313; Glycol ethers (per the current EPA definition) at a level estimated to be 4%.



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15. REGULATORY INFORMATION (continued)

SARA Title III Hazard Classes:

Fire Hazard	NO
Reactive Hazard	NO
Release of Pressure	NO
Acute Health Hazard	NO
Chronic Health Hazard	NO

OTHER FEDERAL REGULATIONS:

FDA Status: N/A

FIFRA Status: N/A

STATE REGULATIONS: This product may contain trace amounts of the following materials that are regulated under California Proposition 65:

Ingredient	Cancer List	Reprod. List	No Sig. Risk Lvl. (ug/day)	RPI
Ethylene Oxide	Y	Y	2	ND
1,4-dioxane	Y	N	30	ND
Propylene Oxide	Y	N	3	ND

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings – NFPA (R):

- 1 Health Hazard Rating – Slight
- 1 Flammability Rating – Slight
- 0 Reactivity Rating – Minimal

National Paint and Coating Hazardous Materials Identification System - HMIS(R):

- 1 Health Hazard Rating – Slight
- 1 Flammability Rating – Slight
- 0 Reactivity Rating – Minimal

Reason for Revisions: Updated regulatory information.

Key Legend Information:

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short-Term Exposure Limit
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
ND	Not determined

Disclaimer:

While the information and recommendations set forth herein are believed to be accurate, we make no warranty with respect hereto and disclaim all liability from reliance thereon.

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