



IrrigAid

Material Safety Data Sheet

Date Prepared: March 1, 2005

Supersedes Date: January 5, 2001

1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION

AQUATROLS CORPORATION OF AMERICA
1273 IMPERIAL WAY
PAULSBORO, NJ 08066
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: 800-257-7797 or www.aquatrols.com

Chemical Name or Synonym: Non-ionic surfactant, soil wetting agent.

C.A.S. Number: Proprietary

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg. Number	Weight (%)	**Exposure Limits**	
			OSHA/PEL	ACGIH/TLV
Co-polymers of polyethylene & polypropylene glycols	Proprietary*	20	Not established	Not established
Water	7732-18-5	80	N/A	N/A

*Trade secret as allowed by 29 CFR 1910.1200-48

3. HAZARDS IDENTIFICATION

A. Emergency Overview:

Physical Appearance and Odor: Clear to slightly cloudy liquid, mild aromatic 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, inhalation and ingestion.

Effects of Overexposure:

Acute Eye:	Slightly irritating. May cause temporary redness and/or irritation.
Acute Skin:	Low acute dermal toxicity. Slightly irritating. May cause redness.
Acute Inhalation:	Inhalation is not likely. Mists may cause upper respiratory tract irritation.
Acute Ingestion:	Practically non-toxic. Ingestion may result in diarrhea or weakness.
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: Give large amounts of water to drink. Seek medical attention if necessary. Induce vomiting only upon advice from a physician.

INHALATION: Inhalation is not an expected route of exposure. Move individual to fresh air and check to assure adequate respiration. Seek medical attention if necessary.

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

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 available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point: > 93°C (200°F).

Method Used: Pensky-Martens Closed Cup

Flammability Limits (vol/vol%): **Lower:** Not established **Upper:** Not established

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 and full protective clothing.

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

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

6. ACCIDENTAL RELEASE MEASURES

Containment of Spill: Follow procedure described below.

Cleanup and Disposal of Spill: Absorb with an inert absorbent. Sweep up and place in an appropriate closed container. Clean up residual material by washing area with water. Collect washings for disposal.

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.



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7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperature: 4 to 50°C (39 to 122°F)

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

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.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

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

Engineering Controls: When potential for exposure exists, provide adequate general area dilution/exhaust ventilation.

Respiratory Protection: When respirators are required, use a suitable NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Under normal conditions with adequate ventilation, no protection is necessary.

Eye/Face Protection: Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. An available eyewash station is recommended.

Skin Protection: Skin contact should be minimized through use of appropriate 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.

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 exact specifications.

Physical Appearance: Clear to hazy viscous liquid

Odor: Mild aromatic odor

pH: 5.0 - 7.0



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Specific Gravity: 1.00 – 1.02 g/ml @ 25°C
Water Solubility: Soluble
Freezing Point Range: Not established
Boiling Point Range: > 100°C
Vapor Pressure: < 0.01 mmHg @ 25°C (77°F)
Vapor Density (air=1): > 1
Cloud Point: 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: Heat, open flame and spark
Materials/Chemical to be Avoided: Strong oxidizing agents, strong bases, strong reducing agents.

The following Hazardous Decomposition Products might be Expected:

Decomposition Type: Thermal Oxides of carbon and hydrogen
Hazardous Polymerization: Will not occur:
Avoid the Following to Inhibit Hazardous Polymerization: N/A

11. TOXICOLOGICAL INFORMATION

The following data is for similar or related products.

Acute Eye Irritation:

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

Acute Skin Irritation:

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

Acute Dermal Toxicity:

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

Acute Respiratory Irritation:

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

Acute Inhalation Toxicity:

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

Acute Oral Toxicity:

Toxicological Information and Interpretation: LD₅₀ – lethal dose to 50% of test species, 5000 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.

12. ECOLOGICAL INFORMATION

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



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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical additions, processing or otherwise altering this material may make the waste management information 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 used 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 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



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

Ingredient	Cancer List	Reprod. List	No Sig. Risk Lvl. (ug/day)	RPI
Dioxane	Y	N	30	ND
Ethylene Oxide	Y	Y	2	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

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

Reason for Revisions: Company location change. This MSDS replaces the January 5, 2001, MSDS.

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.

End of MSDS Document