



## AQUEDUCT™ (Granular Formulation)

Material Safety Data Sheet Date Prepared: March 1, 2005

Supersedes Date: December 8, 2003

### 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](http://www.aquatrols.com)

**Chemical Name or Synonym:** Granular carrier/non-ionic surfactant blend, spreadable soil wetting agent.

**C.A.S. Number:** Mixture – no single C.A.S. number available.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	Weight %	**Exposure Limits**	
			OSHA/PEL	ACGIH/TLV
Blend of non-ionic Polyols	Proprietary*	10%	Not established	Not established
Ground Corn Cob (carrier)	No C.A.S. #	90%	Not established	Not established

\* Trade secret as allowed by 29 CFR1910.1200-48.

### 3. HAZARDS IDENTIFICATION

#### A. Emergency Overview:

**Physical Appearance and Odor:** Tan granules, polyol odor.

**Warning Statements:** CAUTION: May cause irritation!

Based on currently available data, this product does not meet the regulatory definition of a hazardous substance. However, good industrial hygiene practices should be used in handling.

#### B. Potential Health Effects:

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

**Effect of Overexposure:**

- Acute Eye:** Contact with eyes may result in temporary irritation.
- Acute Skin:** Prolonged or repeated skin contact may result in temporary, slight irritation.
- Acute Inhalation:** Dust that may be released in handling may cause symptoms typical of nuisance dusts, including coughing, sneezing and minor respiratory irritation.
- Acute Ingestion:** Surfactant blend is practically non-toxic. Carrier is not considered harmful by ingestion. However, ingestion of large amounts may result in diarrhea and 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 and induce vomiting immediately. Seek medical attention immediately.

**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:** No data available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

**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:**

	<b>Active Ingredients</b>	<b>Carrier</b>
<b>Flash Point</b>	>200°F	>350°F
<b>Method Used</b>	Cleveland Open Cup	Cleveland Open Cup
<b>Flammability Limits (vol/vol%)</b>		
<b>Lower:</b>	No data available	No data available
<b>Upper:</b>		
<b>Extinguishing Media</b>	Water fog, foam, dry chemical, or carbon dioxide	Water fog, foam, dry chemical, or carbon dioxide
<b>Unusual Fire and Explosion Hazards</b>	None known	None known

**6. ACCIDENTAL RELEASE MEASURES**

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

**Containment of Spill:** Follow procedures described below.

**Cleanup and Disposal of Spill:** Sweep up, and shovel product directly into recovery drums. Wear appropriate respiratory protection and provide adequate ventilation during clean-up. Bury or incinerate in a licensed facility.

**Environmental and Regulatory Reporting:** This material is not regulated under RCRA or CERCLA ("Superfund").



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### 7. HANDLING AND STORAGE

**Minimum/Maximum Storage Temperature:** No data available.

**Handling:** Avoid breathing dusts and particulates. Avoid direct or prolonged contact with skin and eyes.

**Storage:** Store in an area that is dry, well-ventilated, away from ignition sources, and away from incompatible materials.

### 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 have been established for this product.

**Engineering Controls:** Use in the presence of adequate ventilation.

**Respiratory Protection:** Not generally required, however, when work conditions are such that dusts or particulates may be generated or present, use a suitable NIOSH/MSHA approved dust mask or respirator. Under normal conditions with adequate ventilation, no protection is necessary.

**Eye/Face Protection:** Wear appropriate protective safety goggles/glasses as described in ANSI standard Z87.1. An available eyewash station is 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.

### 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:** Tan granules

**Odor:** Polyol odor

**pH:** Not established

**Bulk Density:** 0.52 g/cc

**Water Solubility:** Active ingredients are soluble, carrier is very slightly soluble.

**Melting Point Range:** Not established

**Freezing Point Range:** Not established



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<b>Boiling Point Range:</b>	Not established	
<b>Vapor Pressure:</b>	Not established	
<b>Vapor Density:</b>	> 1 (Air = 1)	
<b>Percent Volatiles:</b>	<b>Volume %:</b> Not established	<b>Weight %:</b> Not established
<b>Viscosity:</b>	N/A	
<b>Weight Per gallon:</b>	N/A	

### 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 sparks.

**Materials/Chemical to be Avoided:** Strong oxidizing agents.

The following Hazardous Decomposition Products might be Expected:

**Decomposition Type - thermal:** Oxides of carbon, hydrogen and nitrogen typical of wood smoke.

**Hazardous Polymerization:** Will not occur.

**Avoid the Following to Inhibit Hazardous Polymerization:** N/A

### 11. TOXICOLOGICAL INFORMATION

**Acute Eye Irritation:** No data available.  
**Toxicological Information and Interpretation:**

**Acute Skin Irritation:** No data available.  
**Toxicological Information and Interpretation:**

**Acute Dermal Toxicity:** No data available.  
**Toxicological Information and Interpretation:**

**Acute Respiratory Irritation:** No data available.  
**Toxicological Information and Interpretation:**

**Acute Inhalation Toxicity:** No data available.  
**Toxicological Information and Interpretation:**

**Acute Oral Toxicity:** No data available.  
**Toxicological Information and Interpretation:**

**Chronic Toxicity:** No data available.  
**Toxicological Information and Interpretation:**

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity Information:** No data available

**Environmental Fate Information:** Active ingredients are biodegradable.

**Chemical/Physical Information:** Not corrosive; Not an oxidizer.

**Waste Disposal Method:** Dispose of wastes in a manner consistent with federal, state, and local regulation.



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### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Do not discharge into waterways or sewer systems. Dispose of wastes in a manner consistent with federal, state, and local regulations.

**EPA Hazardous Waste:** N/A

### 14. TRANSPORTATION INFORMATION

**US Department of Transportation Classification:** Cleaning compound NOI

**Hazard Class:** Non-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:

#### SARA Title III Hazard Classes:

Fire Hazard	N
Reactive Hazard	N
Release of Pressure	N
Acute Health Hazard	N
Chronic Health Hazard	N

#### OTHER FEDERAL REGULATIONS:

**FDA Status:** N/A

**FIFRA Status:** N/A

#### STATE REGULATIONS:

**California Proposition 65:** As by-products of the manufacturing process, the active ingredients in this product may contain trace amounts of ethylene oxide (C.A.S. # 75-21-8), acetaldehyde (75-07-0), and 1,4-dioxane (123-91-1), listed in accordance with regulations specified in California Proposition 65. Ethylene oxide is a potential cancer and reproductive hazard. 1,4-dioxane is a potential cancer hazard.



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**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:** Company location change. This MSDS replaces the December 8, 2003, MSDS.

**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.

**End of MSDS Document**