



# REVOLUTION<sup>®</sup> SWDG Granular Formulation

Material Safety Data Sheet    Date Prepared: March 1, 2005

Supersedes Date: February 4, 2005

## 1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION

AQUATROLS CORPORATION OF AMERICA  
1273 IMPERIAL WAY  
PAULSBORO, NJ 08066 USA

### Emergency Phone Numbers:

For chemical emergency spill, leak, fire, exposure or accident, call CHEMTREC Day or Night: Domestic North America 800-424-9300. International call 703-527-3887 (collect calls accepted).

**For Product Information:** 1-800-257-7797 or [www.aquatrols.com](http://www.aquatrols.com)

**Chemical Name or Synonym:** Modified alkylated polyol

**C.A.S. Number:** Proprietary

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	Weight%	**Exposure Limits**	
			OSHA/PEL	ACGIH/TLV
Modified Alkylated Polyol	Proprietary*	10	Not established	Not established
DG Lite	No C.A.S. #	90	Not established	Not established

\*Trade secret as allowed by 29 CFR 1910.1200-48

## 3. HAZARDS IDENTIFICATION

### A. Emergency Overview:

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

**Warning Statements:** No particular hazards known.

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, inhalation and ingestion.

#### 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.

## 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 victim is conscious and alert, give 1-2 glasses of water to drink. 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:** 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:

Flash Point:	Active Ingredients >93°C (200°F)	Carrier >350°F
Method Used:	Cleveland Open Cup	Cleveland Open Cup
Flammability Limits (vol/vol%)		
Lower:	No data available	No data available
Upper:	No data available	No data available
Extinguishing Media:	Water fog, foam, dry chemical, or carbon dioxide	Water fog, foam dry chemical or carbon dioxide
Unusual Fire and Explosion Hazards	None known	None known
Special Fire Fighting Procedures:	Firefighters should wear NIOSH/MSHA approved self-containing breathing apparatus and full protective clothing. This product may foam when mixed with water.	
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.

**Cleanup and Disposal of Spill:** Contain spilled material by diking. Absorb with an inert absorbent. Shovel into an appropriate closed container (See Section 7: Handling and Storage). A comprehensive spill response plan should be developed and implemented.

**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:** No data available.

**Handling:** Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. Use non-sparking tools and grounded/bonded equipment and containers when transferring. In cold weather, this product may stratify and freeze. This does not damage the product. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to assure homogeneity. 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.

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

**Engineering Controls:** Where engineering controls are indicated by use conditions or a potential for exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

**Respiratory Protection:** When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations in accordance with the appropriate regulatory standards and/or industrial recommendations.

**Eye/Face Protection:** Requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87.1 approved equipment should be selected



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for the particular use intended for this material. Wear appropriate protective safety goggles/glasses. An emergency 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 exact specifications.

<b>Physical Appearance:</b>	Tan granulars
<b>Odor:</b>	Polyol odor
<b>pH:</b>	Not established
<b>Specific Gravity:</b>	0.85 g/cc
<b>Water Solubility:</b>	Active ingredients are soluble, carrier is dispersible
<b>Melting Point Range:</b>	Not established
<b>Freezing Point Range:</b>	Not established
<b>Boiling Point Range:</b>	Not established
<b>Vapor Density:</b>	1 (Air =1)
<b>Vapor Pressure:</b>	Not established
<b>Percent Volatiles:</b>	Volume %: Not established <b>Weight % :</b> Not established

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	This material is stable under normal handling and storage conditions described in Section 7.
<b>Conditions to be Avoided:</b>	Heat, open flame and spark.
<b>Materials/Chemical to be Avoided:</b>	Strong acid and oxidizing agents
<b>The following Hazardous Decomposition Products might be Expected:</b>	
<b>Decomposition Type: Thermal</b>	Oxides of carbon
<b>Hazardous Polymerization:</b>	Will not occur
<b>Avoid the Following to Inhibit Hazardous Polymerization:</b>	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:** 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.

All recovered materials should be packaged, labeled, transported, and disposed or reclaimed in conformance with applicable laws and regulations and good industrial hygiene practices. Avoid landfilling liquids; recycle when possible.

**Container Handling and Disposal:** Any containers or equipment used should be decontaminated immediately after use.

## 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)	No subjected to labeling
AUSTRALIA (AICS)	N
JAPAN (ENCS))	N (ENCS listing #7-1321)
SOUTH KOREA (KECL)	N

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	YES
Chronic Health Hazard	NO

**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%.

### OTHER FEDERAL REGULATIONS:

**FDA Status:** N/A

**FIFRA Status:** N/A



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**STATE REGULATIONS:** This product contains the following components 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
Dioxane	Y	N	30	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:** Typos. This MSDS replaces the February 4, 2005, 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**