



# Safety Data Sheet

## Revolution SWDG

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### 1. Identification

**Product identifier used on the label**

**Revolution SWDG**

**Recommended use of the chemical and restriction on use**

Recommended use\*: Chemical

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:  
Aquatrols Corporation of America  
1273 Imperial Way  
Paulsboro, NJ 08066

Telephone: +1 800-257-7797

**Emergency telephone number**

CHEMTEL: 1-800-255-3924

**Other means of identification**

Synonyms: Polymer based on: block copolymer, modified

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

**Classification of the product**

No need for classification according to GHS criteria for this product.

**Label elements**

The product does not require a hazard warning label in accordance with GHS criteria.

**Hazards not otherwise classified**

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No specific dangers known, if the regulations/notes for storage and handling are considered.

**According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

### Emergency overview

CAUTION:

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Wear NIOSH-certified chemical goggles.

Wear protective clothing.

### 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

This product does not contain any components classified as hazardous under the referenced regulation.

**According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
61419-46-3	10.0 - 20.0 %	Oxirane, methyl-, polymer with oxirane, dimethyl ether
Various	80.0 - 100.0 %	DG Lite

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air.

##### If on skin:

Wash thoroughly with soap and water.

##### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

##### If swallowed:

Rinse mouth and then drink plenty of water.

#### Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Hazards: No data available.

#### Indication of any immediate medical attention and special treatment needed

##### Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, foam

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
unburned hydrocarbons, carbon oxides

#### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

#### Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

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### 6. Accidental release measures

#### Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

#### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see, section 8.

#### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

#### Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).  
Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal.

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### 7. Handling and Storage

#### Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

No special precautions necessary.

#### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and in a cool place.  
The packed product is not damaged by low temperatures or by frost. Bulk must be protected from solidification.

Protect from temperatures above: 70 °C

Properties of the product change irreversibly on exceeding the limit temperature.

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### 8. Exposure Controls/Personal Protection

#### Personal protective equipment

##### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

##### **Hand protection:**

Chemical resistant protective gloves

Consult with glove manufacturer for testing data.

##### **Eye protection:**

Safety glasses with side-shields.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

##### **General safety and hygiene measures:**

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and Chemical Properties

Form:	Solid	
Odour:	product specific	
Odour threshold:		not determined
Colour:	brown	
pH value:	approx. 6	( 50 g/l, 23 °C)
solidification temperature:	approx. -7 °C	(DIN ISO 2207)
Boiling point:	> 250 °C	
Flash point:	> 100 °C	(DIN 51758)
Flammability:	not self-igniting	
Lower explosion limit:		For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.
Upper explosion limit:		For liquids not relevant for classification and labelling.
Autoignition:	> 200 °C	(DIN 51794)
Vapour pressure:	< 0.1 hPa	( 20 °C)
Density:	1.02 g/cm <sup>3</sup>	( 23 °C)
Relative density:	1.0305	( 20 °C) (OECD Guideline 109)
Vapour density:		not determined
Partitioning coefficient n-octanol/water (log Pow):		not determined
Self-ignition temperature:		not self-igniting
Thermal decomposition:	> 300 °C	
Viscosity, dynamic:	150 mPa.s	( 23 °C)

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Viscosity, kinematic:	approx. 140 mm <sup>2</sup> /s	( 40 °C) (DIN 51562)
Particle size:		
Solubility in water:		partly soluble
Miscibility with water:		partly miscible
Solubility (qualitative):	soluble	
Evaporation rate:	solvent(s): polar solvents,	not determined
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

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### 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

#### Conditions to avoid

See MSDS section 7 - Handling and storage.

Avoid humidity.

#### Incompatible materials

acids, Alkalines, caustics, halogens, reactive chemicals

#### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

> 300 °C

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### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

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### Acute Toxicity/Effects

#### Oral

Type of value: LD50  
Species: rat  
Value: > 2,000 mg/kg

#### Inhalation

Type of value: LC50  
Species: rat  
not determined

#### Dermal

Type of value: LD50  
Species: rat  
not determined

#### Skin

Species: rabbit  
Result: non-irritant

#### Eye

Species: rabbit  
Result: non-irritant

#### Sensitization

Assessment of sensitization: No data available.

#### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Genetic toxicity

Assessment of mutagenicity: No data available concerning mutagenic effects.

#### Carcinogenicity

Assessment of carcinogenicity: No data available concerning carcinogenic effects.

#### Reproductive toxicity

Assessment of reproduction toxicity: No data available.

#### Teratogenicity

Assessment of teratogenicity: No data available.

#### Other Information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

### Symptoms of Exposure

No significant symptoms are expected due to the non-classification of the product.

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## 12. Ecological Information

### Toxicity

#### Toxicity to fish

LC50 (96 h), Fish  
not determined

#### Aquatic invertebrates

LC50 (48 h), daphnia  
not determined

#### Aquatic plants

EC50 (72 h) > 100 mg/l, algae

#### Chronic toxicity to fish

No data available.

#### Chronic toxicity to aquatic invertebrates

No data available.

### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### Persistence and degradability

#### Elimination information

30 - 40 % CO<sub>2</sub> formation relative to the theoretical value (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Moderately/partially biodegradable.

### Mobility in soil

#### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is possible.

### Additional information

#### Sum parameter

Chemical oxygen demand (COD): 2,010 mg/g

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not release untreated into natural waters. The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

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### 13. Disposal considerations

**Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

**Container disposal:**

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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### 14. Transport Information

**Land transport**

USDOT

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical TSCA, US released / listed  
TSCA § 5 commenced PMN

**EPCRA 311/312 (Hazard categories):** Not hazardous;

**NFPA Hazard codes:**

Health : 1 Fire: 1 Reactivity: 0 Special:

**HMIS III rating**

Health: 1 Flammability: 1 Physical hazard: 0

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### 16. Other Information

**SDS Prepared by:**

Aquatrols Regulatory  
SDS Prepared on: 05/08/2015



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