

## 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:** 800-257-7797 or [www.aquatrols.com](http://www.aquatrols.com)

## 2. HAZARDS IDENTIFICATION

**POTENTIAL HEALTH EFFECTS**

**INHALATION:** No specific health warnings noted  
**INGESTION:** May cause discomfort if swallowed. May cause stomach pain or vomiting  
**SKIN CONTACT:** Non irritant. Not a skin sensitizer  
**EYE CONTACT:** Irritating to eyes  
**ROUTE OF ENTRY:** Skin and/or eye contact. Ingestion. Inhalation  
**TARGET ORGANS:** Eyes, skin

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>Product Composition</u>	<u>CAS Reg No.</u>	<u>WGT. %</u>
A.	<u>Hazardous</u>		
	None		
B.	<u>Non-Hazardous</u>		65%
	Polymaleic acid	26099-09-2	35%

Composition Comments: Aqueous solution containing a mixture of a polycarboxylic acid and an organic acid.

## 4. FIRST AID MEASURES

**INHALATION:** Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues

**INGESTION:** DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Get medical attention.

**SKIN CONTACT:** Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

**EYE CONTACT:** Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use: Water spray, fog or mist. Foam, carbon dioxide or dry powder.

**SPECIAL FIRE FIGHTING PROCEDURES:** Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** No unusual fire or explosion hazards noted.

**SPECIFIC HAZARDS:** Fire created: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>)

**PROTECTIVE MEASURES IN FIRE:** Leave danger zone immediately. Self contained breathing apparatus and full protective clothing must be worn in case of fire

**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** Follow precautions for safe handling described in this MSDS. For personal protection, see section 8.

**ENVIRONMENTAL PRECAUTIONS:** Avoid release to the environment. To prevent release, place container with damaged side up.

**7. HANDLING AND STORAGE**

**HANDLING:** Avoid spilling, skin and eye contact. Observe good chemical hygiene practices.

**STORAGE:** Store separated from: Alkalis. Reducing Agents. Do NOT use container made of: Carbon steel. Keep containers tightly closed. Protect from light, including direct sunrays.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**INGREDIENT COMMENTS:** No exposure limits noted for ingredient(s).

**PROCESS CONDITIONS:** Provide eyewash station

**PROTECTIVE EQUIPMENT:** Safety glasses and gloves

**ENGINEERING MEASURES:** Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**RESPIRATORY EQUIPMENT:** No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit.

**EYE PROTECTION:** Wear approved safety goggles. Use face shield in case of splash risk.

**SKIN PROTECTION:** Wear apron or protective clothing in case of splashes.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Slight
<b>Solubility</b>	Miscible with water
<b>Boiling Point (°C)</b>	100-102
<b>Melting Point (°C)</b>	<5
<b>Relative Density:</b>	1.115 – 1.135 @ 20°C
<b>Vapor Pressure</b>	17.5 mmHg @ 20°C
<b>pH-value, Conc. Solution:</b>	<2
<b>Viscosity:</b>	<6 cps @ 25°C
<b>Partition Coefficient (N-Octanol/Water)</b>	<1

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable under normal temperature conditions and recommended use

**CONDITIONS TO AVOID:** Reacts with alkalis and generates heat

**Materials to Avoid:** Strong Alkalis

**Hazardous Decomposition Products:** Fire creates: toxic gases/vapors/fumes of: carbon Monoxide (CO). Carbon Dioxide (CO<sub>2</sub>)

**11. TOXICOLOGICAL INFORMATION**

**TOXIC DOSE 1 – LD 50** >2000 mg/kg (oral rat)

**TOXICOLOGICAL INFORMATION:** Ames Test negative

**INHALATION:** No specific health warnings noted

**INGESTION:** May cause discomfort if swallowed. May cause stomach pain or vomiting

**SKIN CONTACT:** Non irritant. Not a skin sensitizer

**EYE CONTACT:** Irritating to eyes

## 12. ECOLOGICAL INFORMATION

LC 50, 96 hrs, FISH mg/l: >100  
 EC 50, 48 hrs, DAPHNIA, mg/l: >1000  
 UDF Attribute 4: Acute toxicity. EC50 3 hours > 1000 mg/l sludge inhibition

## 13. DISPOSAL CONSIDERATIONS

### Waste Management:

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

## 14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Corrosive liquid, acidic, organic, N.O.S., (contains polycarboxylic acid)  
 TDG SHIPPING NAME: Corrosive liquid, acidic, organic, N.O.S., (contains polycarboxylic acid)  
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT IDENTIFICATION NO.: No. 3265  
 TUNNEL RESTRICTION CODE: (e)  
 DOT HAZARD CLASS: 8  
 DOT PACKING GROUP: III  
 US DOT HAZARD LABEL: Corrosive  
 UN NO. SEA: 3265  
 IMDG CLASS: 8  
 IMDG PACK GR: III  
 EMS: F-A, S-B  
 MARINE POLLUTANT: No.  
 UN No. AIR: 3265  
 AIR CLASS: 8  
 AIR PACK GR: III  
 TDG PACKING GROUP: III

## 15. REGULATORY INFORMATION

### INVENTORIES:

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
Polymaleic Acid	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
Non Hazardous Materials	DSL							
Organic Acid	DSL	Yes	EINECS					

COMPONENT	TSCA 12(b) EXPORT NOTIFICATION
Polymaleic Acid	N/A
Non Hazardous Materials	No

### US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPC	CERCLA-RQ	SARA 313
Polymaleic Acid		5000 lbs	N/A
Non Hazardous Materials			No
Organic Acid		5000 lbs	No

### CLEAN AIR ACT

COMPONENT	CAA ACCIDENTAL RELEASE PREVENTION
Polymaleic Acid	No
Non Hazardous Materials	No



# SperSal®35

Material Safety Data Sheet

Date Prepared: December 28, 2011

Supersedes Date:

Organic Acid	No
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### US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
Polymaleic Acid	26099-09-2	No	No	No	No	No	No	No
Non Hazardous Materials		No	No	No	No	No	No	No
Organic Acid		No	No	No	No	No	No	No

### REGULATORY STATUS (US)

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. PROPOSITION 65: This product does not contain chemical chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required. TSCA: The ingredients of this product are on the TSCA Inventory.

### REGULATORY REFERENCES

29 CFR 1910.1010 Federal Regulations (OSHA Standard)

### WORKPLACE HAZARDOUS MATERIALS INFORMATIN SYSTEM – WHMIS

Label(s) for supply

- Materials Causing Other Toxic Effects
- Corrosive Materials

### CONTROLLED PRODUCT CLASSIFICATION

Canadian WHMIS Classification E D2B

## 16. OTHER INFORMATION

Prepared by MSDS Classification

#### HMIS RATING

HEALTH	
FLAMMABILITY	
PHYSICAL HAZARD	
PERSONAL PROTECTION	

#### NFPA RATING

HEALTH	
FLAMMABILITY	
REACTIVITY	
SPECIAL	

Key

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

HIMS Ratings Notes: Protection = J (Safety goggles, gloves, apron and combination dust and vapor respirator)

Reason for Revisions: Not applicable – new MSDS, December 28, 2011.

### 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