

evision: 1.0 US	Issuing Date: 6/22/2016		
SECTION I: Identificatio	on of the Substance/Mixture and of the Company/Undertaking		
1.1 Product Identifier			
Product name:	Desaltus 2.0		
1.2 Relevant identified	1.2 Relevant identified uses of the substance or mixture and uses advised against		
Use:	Soil conditioner		
1.3 Details of the suppl	ier of the safety data sheet		
Company:	Aquatrols Corporation of America 1273 Imperial Way Paulsboro, NJ 08066		
Website:	www.aquatrols.com		
Phone number:	(856) 537-6003		
Email:	jyichye@aquatrols.com		
1.4 Emergency telepho	ne		
Phone number:	CHEMTEL - (800) 255-3924 CHEMTEL INTERNATIONAL- +1-813-248-0585		

SECTION II: Hazards Identification

2.1 Classification of the substance or mixture

Product description: Mixture

Classification according to GHS

Met. Corr. 1:	H290
Eye Irrit. 2A:	H319
Skin Irrit. 2:	H315
Skin Sens. 1:	H317

For full text of Hazard Statements: See Section XVI



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2.2 GHS label elements



2.3 Other hazards which do not result in classification

No information available

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance/Mixture: Mixture

3.2 Hazardous ingredients



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Chemical Name	CAS No.	Classification	Concentration	
Polymaleic Acid [2-Butendoic Acid (2)-Homopolymer]	26099-09-2	Met. Corr. 1 Eye Irrit. 2A	43.5%	
		Skin Irrit. 2 Skin Sens. 1		
Alkyl(C8-C10)polyglycoside	68515-73-1	Eye Irrit. 2A	5.8%	

3.3 Non-hazardous ingredients and impurities

Chemical Name	CAS No.	Classification	Concentration
Oxirane-methyloxirane polymer	9003-11-6	Not classified	5.0%
Water	7732-18-5	Not classified	45.7%

SECTION IV: FIRST AID MEASURES	
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4.1 Description of first aid measures

General advice:	Show this SDS to the doctor in attendance. First responder needs to protect himself. Place affected apparel in a sealed bag for subsequent decontamination.
Inhalation:	Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. If person has stopped breathing, administer artificial respiration. If cough or other symptoms persist, call doctor/poison center immediately. Get medical attention if any discomfort continues.
Skin contact:	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists after washing.



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	Prolonged or repeated contact may cause an allergic skin reaction.
Eye contact:	Remove victim immediately from source of exposure. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.
Ingestion:	Rinse mouth thoroughly. Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
4.2 Most important symptom	s and effects, both acute and delayed.
Symptoms after inhalation:	No specific symptoms noted. Irritation of nose, throat and airway.
Symptoms after ingestion:	No specific symptoms noted. May cause discomfort if swallowed. May cause stomach pain or vomiting.
Symptoms after eye contact:	Irritation of eyes and mucous membranes. Profuse watering of the eyes.
Symptoms after skin contact:	No specific symptoms noted. Prolonged skin contact may cause redness and irritation.
4.3 Indication of any immedia	te medical attention and special treatment needed
Note to physician:	All treatments should be based on observed signs and symptoms of distress to the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
Treat symptomatically. There	is no specific antidote available.
SECTIO	ON V: FIREFIGHTING MEASURES



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	5.1 Extinguishing media		
	Suitable extinguishing media:	Dry chemical, CO ₂ , foam, water spray.	
	Unsuitable extinguishing media:	High power water jet.	
	5.2 Special hazards arising from the su	ubstance or mixture	
	Specific hazards during firefighting:	Under fire conditions, will burn.	
	Hazardous decomposition products:	Carbon oxides and other hazardous compounds.	
	5.3 Advice for firefighters		
	Special protective equipment:	Firefighters should wear approved self- contained breathing apparatus and full protective clothing.	
	Further information:	Standard procedure for chemical fires. Colle contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	

SECTION VI: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Contain material by diking the area around the spill. Soak up using a suitable inert absorbent material, then shovel into recovery drums.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Spills should be reported to local agencies.

6.3 Methods and materials for containment and cleanup

Methods of containment:	Stop leak if safe to do so. Dam up with sand or inert earth (do not use combustible materials).
Recovery:	Soak up with inert absorbent materials.



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	Shovel or sweep up. Keep in suitable, closed container for disposal. Never return spills to original containers for re-use.	
Decontamination/clea	ng: Clean contaminated surface thoroughly. Wash non-recoverable remainder with large amounts o water. Recover the cleaning water for subsequent disposal. Decontaminate tools, equipment and personal protective equipment in a segregated area.	of
Disposal:	Dispose of in accordance with local regulations.	

6.4 Reference to other sections

See Section VII for Handling and Storage.

SECTION VII: HANDLING AND STORAGE

7.1 Precautions for safe handling of the substance/mixture.

Technical measures:	Provide adequate ventilation.
Advice on safe handling and usage:	Avoid inhalation of vapor or mist. Avoid contact with skin and eyes.
Hygiene measures:	 Personal hygiene is an important workplace 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 foods, beverages, tobacco products, or cosmetics in areas 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 or contact with material.

7.2 Conditions for safe storage, including any incompatibilities



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St	corage conditions	
Re	ecommended:	Store in tightly closed original container in a dry cool place. Keep away from incompatible materials and extreme temperatures. Store in accordance with all applicable local, state and federal guidelines.
Τα	be avoided:	Keep away from open flames, hot surfaces and sources of ignition. Do not store together with sulfite, nitrites and bases.
St	orage stability	
St	orage temperature:	No data available.
7.	3 Specific end use(s)	
Se	ee Section I	
	SECTION VIII: EX	POSURE CONTROLS/PERSONAL PROTECTION

General comments

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

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Exposure limits:	Not established
Protective measures:	Ensure that eyewash stations and safety showers are close to workstation. Emergency equipment immediately accessible, with instructions for use. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present,



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	duration of use, and the potential hazards, and/or risks that may occur during use.
Respiratory protection:	Not normally required under typical use conditions. If exposure levels are exceeded a respirator must be used. If needed, use a MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow are requirements of OSHA respirator guidelines (29 CFR 1910.134).
Hand protection:	PVC or butyl rubber gloves.
Eye protection:	Tightly sealed goggles according to OSHA Standard 29 CFR 1910.133 or ANSI Z87.1-2010.
Body protection:	Wear acid-resistant protective clothing. Protective gloves (chemically resistant) according to OSHA Standard 29 CFR 1910.138
Hygiene measures:	 Personal hygiene is an important workplace 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 foods, beverages, tobacco products, or cosmetics in areas 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 or contact with material.

SECTION IX: CHEMICAL AND PHYSICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Form:	Liquid
Color:	Light yellow to amber liquid
Odor:	No data available
Odor threshold:	No data available
pH:	1-2 (1% sol'n in water)



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Initial boiling point:	100-1	02°C (760 mm Hg)	
Melting point:	6.8°F		
Freezing point:	6.8°F		
Flashpoint:	No da	ta available	
Evaporation rate:	Not de	etermined	
Flammability:	Will b	urn	
Upper explosive limi	: No da	ta available	
Lower explosive limi	: No da	ta available	
Vapor pressure:	No da	ta available	
Relative density:	1.18 g	;/mL (68°F (20°C))	
Solubility:	Comp	letely miscible in water	
Partition n-octanol/	vater:	No data available	
Autoignition temper	ature:	No data available	
Thermal decomposit	ion:	No data available	
Viscosity:		< 6 cP (25°C)	
Explosive properties		No data available	
Oxidizing properties:		No data available	
9.2 Other informatio Not applicable	n		

SECTION X: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid temperature extremes. Protect from freezing. Exothermic reactions with bases. Contact with nitrites liberates nitrogen dioxide (NO₂). Contact with sulfites liberates sulfur dioxide (SO₂).

10.5 Incompatible materials

Bases, sulfites, nitrites, strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition may yield maleic monomer and other hydrocarbons. In the event of fires, oxides of carbon (CO_x) and other toxic compounds may be released.



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SECTION XI: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	
Acute oral toxicity:	Polymaleic acid LD50 12,500 mg/kg – Rat
	Maleic acid LD50 708 mg/kg – Rat
	Remarks:
	Behavioral – Convulsions or effect on seizure threshold.
	Muscle weakness.
	Gastrointestinal – Ulceration or bleeding from stomach.
Acute inhalation toxicity:	LC50 – 1 h - > 720 mg/m ³ - Rat
Acute dermal toxicity:	LD50 – 1,560 mg/kg – Rabbit
	Remarks:
	Behavioral - Tremor
Acute toxicity (other routes of	of administration): No data available
Skin corrosion/irritation	
Skin irritation:	Mild skin irritation – 24 h – Rabbit
Skin initiation.	
Serious eye damage/eye irri	itation
Eye irritation:	Severe eye irritation – Rabbit
Respiratory or skin sensitiza	tion
Sensitization:	No data available
Mutagenicity	
Genotoxicity in vitro:	No data available
Genotoxicity in vivo:	No data available
Carcinogenicity	
Carcinogenicity:	IARC – No component of this product present at levels greater
	than or equal to 0.1% is identified as probable, possible or
	confirmed human carcinogen by IARC.
	ACGIH – No component of this product present at levels greater
	than or equal to 0.1% is identified as a carcinogen or potential
	carcinogen by ACGIH.



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		NTP – No component of this product present at levels greater
		than or equal to 0.1% is identified as a known or anticipated
		carcinogen by NTP.
		OSHA – No component of this product present at levels greater
		than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	Toxicity for reproduction a	nd development
	Toxicity to reproduction/fe	•
	Developmental toxicity/teratogenicity: No data available	
	Specific target organ toxici	ty – single exposure
	May cause respiratory irrita	ation
	Specific target organ toxici No data available	ty – repeated exposure
	Potential health effects	
	Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
	Ingestion:	Harmful if swallowed.
	Skin:	Harmful if absorbed through skin. Causes skin irritation.
	Eyes:	Causes eye irritation.
	SECT	ION XII: ECOLOGICAL INFORMATION
	12.1 Toxicity	
	Acute aquatic toxicity:	Polymaleic acid Fish - LC50 96 hours >100 mg/L – Oncorhyncus mykiss Daphnia – EC50 48 hours > 1000 mg/L – Daphnia magna Respiratory inhibition test, applied on activated sludge: IC 50 > 1000 mg/L
		Maleic acid Fish – LC50 96 hours – 5 mg/L – Pimephales promelas Daphnia – EC50 48 hours – 316.2 mg/L
	Chronic aquatic toxicity:	No data available.

12.2 Persistence and degradability



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Polymaleic a Maleic acid:	id: Zahn-Wellens test – 18%/3 Biodegradation – 92%/20 d	
12.3 Bioaccu Polymaleic a Maleic acid:	nulative potential id: Bioaccumulation is unlikely Product is readily biodegra	
12.4 Mobilit No data avai		
12.5 Results No data avai	of PBT and vPvB assessment able	
12.6 Other a No data avai	lverse effects able	
	SECTION XIII: DISPOSAL CONSIDERATIONS	
13.1 Waste t	eatment methods	
Advice on dis	cosal: Chemical additions, processing or otherwise make the waste management information incomplete, inaccurate or otherwise inappr that local requirements for waste disposal i	oresented in this SDS opriate. Please be advised

Contaminated containers: Rinse with appropriate solvent. Dispose of contents/container in accordance with local regulations.

regulations regarding proper disposal of this material.

otherwise different from federal laws and regulations. Consult local

SECTION XIV: TRANSPORT INFORMATION

In accordance with the provisions of ADR/RID/ADNR/IMDG/ICAO/IATA

14.1 UN Number

DOT:	3265
IATA:	3265
IMDG:	3265

14.2 Shipping name UN Model

DOT: CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (Homopolymer of maleic acid) IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (Homopolymer of maleic acid)



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IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (Homopolymer of maleic acid)

14.3 Transport hazard class

DOT: 8 IATA: 8 IMDG: 8

14.4 Packing group

DOT: III IATA: III IMDG: III

14.5 Environmental hazards

No additional information available

14.6 Special precautions for use

No additional information available

14.6.1 Ground transport

No additional information available

14.6.2 Sea transport

No additional information available

14.6.3 Air transport No additional information available

14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code No additional information available

SECTION XV: REGULATORY INFORMATION

15.1 Safety legislation specific for the substance or mixture

US Federal Regulations

TSCA Registered: Yes SARA Title III Section 313: Unknown R&D Exemption: Unknown

15.2 Chemical safety assessment

No information available.

SECTION XVI: OTHER INFORMATION



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More information	
Abbreviations	
ADR:	European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal Concentration 50%
LD50:	Lethal Dose 50%
EC50:	Effective Dose 50%
CLP:	Classification, Labelling and Packaging
CAS:	Chemical Abstract Service
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
IATA-DGR:	International Air Transport Association Dangerous Goods Regulations
GHS:	Globally Harmonized System (GHS) of Labelling Chemical Products
Hazard Statements:	H315: Causes skin irritation
	H319: Causes serious eye irritation
Version:	1.0
Previous version:	Not applicable
Reason for revision:	New SDS

The information in this SDS, to our knowledge, is accurate at the data of publication. This information is intended as a guide for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a guarantee or indication of quality. The information relates only to the specific material and may not be valid in combination with other products or used in any process, unless specified in the text.