

1. IDENTIFICATION	
Product Identifier	
Product Name	Dynaquat Detergent Disinfectant Pump Spray
Other means of identification	
SDS #	DYNI-019
Recommended use of the chemical and restrictions on use	
Recommended Use	Detergent. Disinfectant.
Details of the supplier of the safety data sheet	
Supplier Address Dynasol, Inc 330 Pine St. Canton, MA 02021	

Emergency Telephone Number	
Company Phone Number	Phone: (781) 821-8888 Fax: (781) 575-9177
Emergency Telephone (24 hr)	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION	
Appearance	Clear liquid

Physical State	Liquid
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Odor	Fresh
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Classification	
Serious eye damage/eye irritation	Category 2
Signal Word	
Warning	
Hazard Statements	
Causes serious eye irritation	

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<u>Precautionary Statements - Prevention</u>		
Wash face, hands and any exposed skin thoroughly after handling		
Wear eye/face protection		

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<u>Precautionary Statements - Response</u>		
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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing		
If eye irritation persists: Get medical advice/attention		

<u>Other Hazards</u>		
Harmful to aquatic life with long lasting effects		

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3. COMPOSITION/INFORMATION ON INGREDIENTS		
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Chemical Name	CAS No	Weight-%
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Proprietary solvent	Proprietary	1-10
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EDTA	64-02-8	1-5
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If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin Contact

Remove contaminated clothing. Wash off immediately with plenty of water. If skin irritation persists, call a physician.

Inhalation

Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.

Ingestion

Do not induce vomiting. Rinse mouth. Immediately call a poison center or doctor/physician.

Most important symptoms and effects

Symptoms

Prolonged or repeated skin contact may cause irritation. Causes eye irritation. Irritating to mouth, throat and stomach.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Dry chemical. Water. BC/ABC extinguisher may be used in area where material is stored. Synthetic foam.

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protection recommended in Section 8.

Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Collect and reuse if possible. Contain and collect with an inert absorbent and place into an appropriate container for disposal. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Keep containers closed when not in use. Surfaces subject to spills of this product can become slippery.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of the reach of children.
Incompatible Materials	Strong oxidizing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary solvent	TWA: 10 ppm inhalable fraction and vapor	-	-

Appropriate engineering controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Protective eyewear recommended.
Skin and Body Protection	Chemical resistant gloves recommended.
Respiratory Protection	No protection is ordinarily required under normal conditions of use and with adequate ventilation.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear liquid

Odor	Fresh
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Color	Clear		
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	Odor Threshold	Not determined	
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<u>Property</u>	<u>Values</u>		

	<u>Remarks • Method</u>	
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pH	Not determined		

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Melting Point/Freezing Point	Not determined		

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Boiling Point/Boiling Range	93.33 °C / 200 °F		

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Flash Point	> 93.34 °C / > 201 °F		

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Evaporation Rate	Slower than ethyl ether		

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Flammability (Solid, Gas)	Liquid-Not applicable	

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Upper Flammability Limits	Not determined	

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Lower Flammability Limit	Not determined	

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Vapor Pressure	Not determined	

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Vapor Density	Heavier than air	

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Specific Gravity	Not determined	

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Water Solubility	Completely soluble	

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Solubility in other solvents	Not determined	

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Partition Coefficient	Not determined	

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Auto-ignition Temperature	Not determined	

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Decomposition Temperature	Not determined	

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Kinematic Viscosity	Not determined	

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Dynamic Viscosity	Not determined	

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Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity		
Not reactive under normal conditions.		

Chemical Stability			
Stable under recommended storage conditions.			
Possibility of Hazardous Reactions			
None under normal processing.			
	Hazardous Polymerization	Hazardous polymerization does not occur.	
Conditions to Avoid			
Keep out of reach of children.			
Incompatible Materials			
Strong oxidizing agents. Acids.			
Hazardous Decomposition Products			
None known based on information supplied.			
11. TOXICOLOGICAL INFORMATION			
Information on likely routes of exposure			
	Product Information		
	Eye Contact	Causes serious eye irritation.	
	Skin Contact	Prolonged contact may cause redness and irritation.	
	Inhalation	Avoid breathing vapors or mists.	
	Ingestion	May cause discomfort if swallowed.	
Component Information			
	Chemical Name	Oral LD50	Dermal LD50
	Proprietary solvent	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)
	EDTA	= 1658 mg/kg (Rat) = 10 g/kg (Rat)	-
Information on physical, chemical and toxicological effects			
	Symptoms	Please see section 4 of this SDS for symptoms.	
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
	Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.	
Numerical measures of toxicity			
Not determined			
12. ECOLOGICAL INFORMATION			
Ecotoxicity			
Harmful to aquatic life with long lasting effects.			
Component Information			

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea						
Proprietary solvent	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static		100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50						
EDTA	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		610: 24 h Daphnia magna mg/L EC50						
<u>Persistence/Degradability</u> Not determined.										
<u>Bioaccumulation</u> Not determined.										
<u>Mobility</u> Not determined										
<u>Other Adverse Effects</u> Not determined										
13. DISPOSAL CONSIDERATIONS										
<u>Waste Treatment Methods</u>										
Disposal of Wastes		Disposal should be in accordance with applicable regional, national and local laws and regulations.								
Contaminated Packaging		Disposal should be in accordance with applicable regional, national and local laws and regulations.								
14. TRANSPORT INFORMATION										
<u>Note</u>		Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.								
<u>DOT</u>		Not regulated								
<u>IATA</u>		Not regulated								
<u>IMDG</u>										
Marine Pollutant		This material may meet the definition of a marine pollutant								
15. REGULATORY INFORMATION										
<u>International Inventories</u>										
All ingredients of this product are listed or exempt from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory										
Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary solvent	Present	X		Present		Present	X	Present	X	X
EDTA	Present	X		Present		Present	X	Present	X	X
Legend:										
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory										
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List										
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances										
ENCS - Japan Existing and New Chemical Substances										

	<i>IECSC - China Inventory of Existing Chemical Substances</i>
	<i>KECL - Korean Existing and Evaluated Chemical Substances</i>
	<i>PICCS - Philippines Inventory of Chemicals and Chemical Substances</i>
	<i>AICS - Australian Inventory of Chemical Substances</i>

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Proprietary solvent -		1-10	1.0

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Proprietary solvent	X		X

EPA Statement

EPA# 1839-83-69865

16. OTHER INFORMATION

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<u>NFPA</u>	
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	Health Hazards 2	
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		Flammability 0		
		Instability 0		
		Special Hazards Not determined		
	HMIS			
		Health Hazards Not determined		
		Flammability Not determined		
		Physical Hazards Not determined		
		Personal Protection Not determined		
	Issue Date:	01-Apr-1996		
	Revision Date:	07-May-2015		
	Revision Note:	New format		

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<u>Disclaimer</u> The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.	
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End of Safety Data Sheet	
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