ASC1-0013 ASC1-0013EMP ASC1-0013SPT

Safety Data Sheet

Issue Date: 25-Sep-2013

Revision Date: 10-Sep-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name

Dyno Foam

HD

Other means of identification

SDS#

AQS-005

UN/ID No

UN3266

Recommended use of the chemical and restrictions on use

Recommended Use

A chlorinated cleanser which creates a rich foam for longer dwell time. The superior surfactant system, along with chlorine, penetrates, peptizes and removes soil rapidly, leaving a clean odor-free surface.

Details of the supplier of the safety data sheet

Supplier Address

Aqua Systems, Inc. P.O. Box. 397

Arroyo Grande, CA 93420

Ph: 805-489-9250

Emergency Telephone Number

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear/amber liquid

Physical State Liquid

Odor Citrus

Classification

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage

Suspected of causing cancer



Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage Store

locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Please also refer to subsequent sections of this SDS for additional information regarding the components of this product.

Chemical Name	CAS No	Weight-%
Sodium hypochlorite	7681-52-9	10-20
Potassium hydroxide	1310-58-3	1-5
Dipropylene Glycol Monomethyl Ether (DPM)	34590-94-8	1-5
Cocomide DEA	68603-42-9	0.1-1.0

^{**}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

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Eye Contact	Rinse immediately with ple medical attention immediate	enty of water, also under the tely.	eyelids, for at lea	st 15 minutes. Get
Skin Contact	Remove contaminated clot attention if irritation develop	thing. Wash off immediately ps or persists.	with plenty of wat	ter. Get medical
Inhalation	IF INHALED: Remove victi breathing. Get medical atte	m to fresh air and keep at reention immediately.	est in a position co	omfortable for
Ingestion		nse mouth. Drink 1 or 2 glas person. Immediately call a po		

Most important symptoms and effects

Symptoms

Burning and/or irritation to eyes and skin. Ingestion may cause severe burns to mouth, throat or stomach. May cause eye burns and permanent eye damage. May cause irritation to the mucous membranes and upper respiratory tract.

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.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical Product

is not flammable.

Hazardous Combustion Products May emit toxic or corrosive fumes under fire conditions.

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. Soak up and contain spill with an

absorbent material.

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Methods for Clean-Up

Collect and reuse if possible. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local 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. Do not breathe vapors or spray mist. Do not eat or drink while handling this material. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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. Store locked up.

Incompatible Materials

Strong oxidizing agents. Acids. Alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310- 58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m³	Ceiling: 2 mg/m ³
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m³ (vacated) STEL: 905 mg/m³	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m³ STEL: 150 ppm STEL: 900 mg/m³

Appropriate engineering controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Maintain eye wash fountain and

quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Chemical resistant gloves recommended.

Respiratory Protection

No protection is ordinarily required under normal conditions of use and with adequate ventilation. Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate. Refer to 29 CFR 1910.134 for respiratory protection requirements.

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General Hygiene Considerations Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State

Liquid

Appearance

Clear/amber liquid

Odor

Citrus

Color

Clear/amber

Odor Threshold

Not determined

Property

Values

Remarks • Method

pН

13.5 +/- 0.5

Melting Point/Freezing Point

Not determined

Boiling Point/Boiling Range

100 °C / 212 °F

Flash Point

Not determined

Evaporation Rate

> 1.0

(Water = 1)

Flammability (Solid, Gas)

Liquid-Not applicable

Upper Flammability Limits

Not determined

Lower Flammability Limit

Not determined

Vapor Pressure

Not determined

Vapor Density

Not determined

Specific Gravity

1.10 +/- 0.05

Water Solubility

Completely soluble

Solubility in other solvents

Not determined

Partition Coefficient

Not determined

Auto-ignition Temperature

Not determined

Decomposition Temperature

Not determined

Kinematic Viscosity

Not determined

Dynamic Viscosity

Not determined

Explosive PropertiesOxidizing Properties

Not determined Not determined

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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. Alkalis.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

Causes severe eye damage.

Skin Contact

Causes severe skin burns.

inhalation

Avoid breathing vapors or mists. May cause irritation to the mucous membranes and upper

respiratory tract.

Ingestion

May cause chemical burns to mouth, throat and stomach.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hypochlorite 7681-52-9	= 8200 mg/kg(Rat)	> 10000 mg/kg(Rabbit)	-
Tetrapotassium pyrophosphate 7320-34-5	-	> 4640 mg/kg (Rabbit)	-
Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	-	-
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8	= 5230 mg/kg(Rat)	= 9500 mg/kg(Rabbit)	-
Cocomide DEA 68603- 42-9	= 12400 μL/kg(Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9		Group 3		
Cocomide DEA 68603-42-9		Group 2B		X

Leaend

IARC (International Agency for Research on Cancer) Group

2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X -

Present

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium hypochlorite 7681-52-9	0.095: 24 h Skeletonema costatum mg/L EC50	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static		0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50
Tetrapotassium pyrophosphate 7320-34-5	,	100: 96 h Oncorhynchus mykiss mg/L LC50		100: 48 h water flea mg/L EC50
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static		
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8		10000: 96 h Pimephales promelas mg/L LC50 static		1919: 48 h Daphnia magna mg/L LC50
Cocomide DEA 68603-42-9		3.6: 96 h Brachydanio rerio mg/L LC50 semi-static		4.2: 24 h Daphnia magna mg/L EC50

Persistence/Degradability Not

determined.

Bioaccumulation Not

determined.

Mobility

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Chemical Name	Partition Coefficient	
Potassium hydroxide 1310-58-	0.65	
3	0.83	
Dipropylene Glycol Monomethyl Ether	-0.064	
(DPM)		
34590-94-8		

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Disposal should be in accordance with applicable regional, national and local laws and

Contaminated Packaging regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status		
Potassium hydroxide 1310-58-	Toxic Corrosive		
3			

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN3266

Proper Shipping NameCorrosive liquid, basic, inorganic, n.o.s. (Sodium hypochlorite, Sodium hydroxide)

Hazard Class 8
Packing Group III

IATA

UN/ID No UN3266

Proper Shipping Name Corrosive liquid, basic, inorganic, n.o.s. (Sodium hypochlorite, Sodium hydroxide)

Hazard Class 8
Packing Group |||

IMDG

UN/ID No UN3266

Proper Shipping Name Corrosive liquid, basic, inorganic, n.o.s. (Sodium hypochlorite, Sodium hydroxide)

Hazard Class 8
Packing Group |||

Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

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Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium hypochlorite	Present	Х		Present		Present	Х	Present	Х	Х
Potassium hydroxide	Present	Х		Present		Present	Х	Present	Х	Х
Dipropylene Glycol Monomethyl Ether (DPM)	Present	Х		Present		Present	Х	Present	Х	Х
Cocomide DEA	Present	Х		Present		Present	Х	Present	Х	Х

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

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hypochlorite 7681-52-9	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Potassium hydroxide	1000 lb		RQ 1000 lb final RQ RQ
1310-58-3			454 kg final RQ

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 %
Dipropylene Glycol Monomethyl Ether (DPM) - 34590-94-8	34590-94-8	2	1.0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite	100 lb			X
Potassium hydroxide	1000 lb			X

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Cocomide DEA - 68603-42-9	Carcinogen	

U.S. State Right-to-Know Regulations

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Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hypochlorite 7681-52-9	Х	Х	X
Potassium hydroxide 1310-58-3	X	х	Х
Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8	Х	х	Х

16. OTHER INFORMATION

NFPA Health Hazards Flammability Instability 1 Special Hazards Not determined

HMIS Health Hazards Flammability Physical Hazards Personal Protection

3 0 1 Not determined

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Revision Note: New format

Disclaimer

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.

End of Safety Data Sheet