SAFETY DATA SHEET

Version 1

Issuing Date 01-Mar-2016

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Details of the supplier of the safety	data sheet
Details of the supplier of the safety of Distributor	
Multi-Steam	
ŒĂTæ•@ælÂĴd^^c	
Wallingford, CT 06492	
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Emergency telephone number	
24 Hour Emergency Phone Number	INFOTRAC: 1-352-323-3500 (INTERNATIONAL) 1-800-535-5053 (NORTH AMERICA)
Company Phone Number	1-888-708-1929
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	2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements

Emergency Overview		
Physical state Liquid	Odor	Lime
	Physical state Liquid	Physical state Liquid Odar

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

• Wash face, hands and any exposed skin thoroughly after handling

• Wear protective gloves/protective clothing/eye protection/face protection

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

• 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

• 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

Hazards not otherwise classified (HNOC)

Other information Unknown Acute Toxicity

3.2% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight-%	Trade Secret
Diethylene glycol monobutyl ether	112-34-5	5% - 15%	*
Sulfamic acid	5329-14-6	1% - 5%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	Show this safety data sheet to the doctor in attendance.
Eye contact	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. GET IMMEDIATE MEDICAL ATTENTION.
Skin contact	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before re-use.
Inhalation	If qualified give oxygen or artificial respiration as needed.
Ingestion	DO NOT induce vomiting. Give large amounts of water if victim is conscious. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of First-aiders	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Main Symptoms The most important known symptoms and effects are described in the labelling in section 2 and/or in section 11.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media This product contains alcohols which will reduce the effectiveness of normal foam. Use alcohol-resistant foam instead.

Specific hazards arising from the chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

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	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.
Other information	Common Weak Bases suitable for neutralizing corrosive acids: calcium hydroxide / lime, baking soda / sodium bicarbonate, soda ash / washing soda / sodium carbonate, medical antacids, and powdered limestone / calcium carbonate.
Environmental precautions	
Environmental precautions	Neutralization is normally necessary before waste water is discharged into water treatment plants. Keep out of waterways. See Section 12 for additional Ecological Information.
Methods and materials for containment and cleaning up	
Methods for Containment	Dike to contain spill and prevent entry into sewers, waterways, and low areas. Neutralize with dilute base.
Methods for cleaning up	Mop up & flush neutralized material to sewer with plenty of water.
7. HANDLING AND STORAGE	

Precautions for safe handling

Advice on safe handling Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions	Keep container in cool well-ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.

Incompatible products

Alkalies, Oxidizers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Control parameters

Exposure Guidelines	Review Section 3 & 4 for E	Exposure Guidelines.	
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethylene glycol monobutyl ether	TWA: 10 ppm inhalable fraction	-	-
112-34-5	and vapor		

NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Individual protection measures, su	Ensure adequate ventilation and that running water is available for washing eyes and skin ich as personal protective equipment
Eye/Face Protection	Splash-proof chemical goggles or face shield.
Skin and body protection	Acid proof gloves, impervious rubber boots & apron.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures	Do not eat, drink or smoke when using this product. Practice good personal hygiene. Wash after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Appearance Color	Liquid Transparent Colorless	Odor Odor Threshold	Lime No information available
Property_	<u>Values</u>	Remarks • Methods	
рН	1.5	± 0.5	
Melting/freezing point	No information available		
Boiling point/boiling range	100 °C / 212 °F		
Flash Point	No information available	TCC	
Evaporation rate	No information available	No information available	
Flammability (solid, gas)	No information available		
Flammability Limits in Air			
Upper flammability limit	No information available		
Lower flammability limit	No information available		
Vapor pressure	NE		
Vapor density	NE		
Specific Gravity	1.048 ± .005		
Water solubility	Completely soluble.		
Solubility in other solvents	No information available		
Partition coefficient: n-octanol/wat			
Autoignition temperature	No information available		
Decomposition temperature	No information available		

Viscosity, kinematic	
Viscosity, dynamic	
Explosive properties	
Oxidizing Properties	

Other information

Softening point Molecular Weight VOC Content(%) Density VALUE Bulk Density VALUE No information available No information available No information available No information available

No information available No information available < 20% No information available No information available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Alkalies, Oxidizers

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Causes severe skin burns and eye damage
Inhalation	Corrosive to respiratory system.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness.
Skin contact	Causes burns.
Ingestion	Severe irritation of the gastrointestinal tract, causing vomiting, nausea and burns.

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Diethylene glycol monobutyl ether 112-34-5	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
Sulfamic acid 5329-14-6	= 1450 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms

No information available.

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

Sensitization	No information available.
Mutagenic effects	No information available.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.

STOT - repeated exposure Chronic toxicity Aspiration hazard	No information available. No information available. Avoid repeated exposure. No information available.			
Numerical measures of toxicity - Product Information				
Unknown Acute Toxicity	3.2% of the mixture consists of ingredient(s) of unknown toxicity			
The following values are calculated based on chapter 3.1 of the GHS document				
ATEmix (oral)	14284 mg/kg			
ATEmix (dermal)	27000 mg/kg			

12. ECOLOGICAL INFORMATION

Ecotoxicity

3.2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Diethylene glycol monobutyl ether	100: 96 h Desmodesmus	1300: 96 h Lepomis macrochirus	2850: 24 h Daphnia magna mg/L
112-34-5	subspicatus mg/L EC50	mg/L LC50 static	EC50 >100: 48 h Daphnia magna
		-	mg/L EC50
Sulfamic acid	-	14.2: 96 h Pimephales promelas	-
5329-14-6		mg/L LC50 static	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment	
Waste Disposal Methods	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

14. TRANSPORT INFORMATION

DOT Proper shipping name Not regulated Cleaning Compound, Not Regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the 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 Commercial Chemical Substances/EU 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

U.S. Federal Regulations

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	SARA 313 - Threshold Values %	
Diethylene glycol monobutyl ether - 112-34-5	1.0	
SARA 311/312 Hazard Categories		
Acute Health Hazard	Yes	
Chronic Health Hazard	no	
Fire Hazard	no	
Sudden Release of Pressure Hazard	no	
Reactive Hazard	no	

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).

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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product contains substances regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol monobutyl ether	Х	-	Х
112-34-5			
Sulfamic acid	Х	-	-
5329-14-6			
U.S. EPA Label Information			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION				
<u>NFPA</u>	Health Hazards 3	Flammability 0	Instability 0	Physical and chemical hazards COR
HMIS	Health hazard 3	Flammability 0	Physical Hazards 0	Personal protection X
Prepared By Issuing date Revision Date Revision Note	01-Mar-2016			

<u>Disclaime</u>r

The information provided in this Material 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