

Issue Date: 04-Aug-2014

Revision Date: 18-Apr-2018

Version 2

1. IDENTIFICATION

Product Identifier

Product Name ENVIROGREEN ECO KLEAN

Other means of identification

M-02633 M-02635 M-02637

Recommended use of the chemical Cleaner/degreaser

Manufacturer/Supplier Information

Supplier Address Ashburn Chemical Technologies
7403 Wright Rd
Houston, TX 77041

Emergency Telephone Number 832-399-1000

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Physical Hazards None

Health Hazards Skin Irritation Category 2
Serious Eye damage/Eye Corrosion Category 1

Signal Word DANGER

Hazard Statements H315 Causes skin irritation
H318 Cause serious eye irritation damage



Precautionary Statements - Prevention

P264 Wash face, hands and any exposed skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
P338 Continue rinsing.
P310 Immediately call a poison center or doctor/physician

Precautionary Statements - Storage P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium Hydroxide	1310-73-2	0.1 - 1
Sodium Metasilicates	6834-92-0	1-5
Ethylene Glycol Monobutyl Ether	111-76-2	1-5

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

General Advice	If you feel unwell, seek medical advice. Show the label where possible. Show this safety data sheet to the doctor / medical personnel for treatment
Eye Contact	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin Contact	Wash contact areas with soap and water. Remove contaminated clothing and lauder before reuse. If skin irritation persists, call a physician.
Inhalation	Remove from further exposure. Use adequate respiratory protection. Seek immediate medical assistance.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Seek immediate medical attention/advice.

Most important symptoms and effects

Symptoms	Skin contact may cause irritation, redness Eye contact may cause eye damage, pain, tearing, redness, swelling, stinging See SECTION 11 for more information.
-----------------	--

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat as a corrosive substance
---------------------------	--------------------------------

5. FIRE-FIGHTING MEASURES

Suitable /Unsuitable Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames
Specific Hazards Arising from the Chemical	Thermal decomposition may produce toxic fumes or harmful vapor.
Hazardous Combustion Products	None-known
Protective equipment / 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	Avoid contact with skin or eyes. Avoid breathing dust/fume/gas/mist/vapors/spray See SECTION 8 for Personal Protective Equipment
Environmental Precautions	Prevent entry into waterways, rivers, lakes, drains, surface water, or ground water. Prevent further leakage or spillage if safe to do so. See SECTION 12 for Ecological Information.
Methods for Clean-Up	Absorb or cover with dry earth, sand or other non-combustible material. 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. See SECTION 13 for Waste Disposal.

7. HANDLING AND STORAGE

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fumes, vapors, mists, spray. Wash face, hands, and any exposed skin thoroughly after handling. See SECTION 2 for Precaution Statements. See SECTION 8 for Personal Protection.
Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in open or unlabeled containers. Storage temperature 5-40°C (41-104°F). Store locked up.
Incompatible Materials	Acids. Oxidizing agents. Halogenated materials. Avoid prolonged contact with alkali sensitive materials or alloys.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Chemical Name	(US) ACGIH TLV	(US) OSHA PEL	(US) NIOSH REL
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³ Table Z-1 Limits for Air Contaminants	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Sodium metasilicate 6834-92-0	2 mg/m ³	2 mg/m ³	-

Legend: **ACGIH:** American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
NIOSH: National Institute for Occupational Safety and Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit

Engineering Controls Adequate ventilation. Maintain eye wash fountain and quick-drench facilities in work area.

Personal Protective Equipment

Eye/Face Protection	Safety glasses and face shield
Skin and Body Protection	Nitrile rubber gloves / Chemical resistant or water resistant gloves Personal protective clothing must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection

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 and lauder before use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mild
Appearance	Clear	Odor Threshold	Not determined
Color	Light yellow		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	13.0		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	> 100 °C / 212 °F		
Flash Point	Not flammable		
Evaporation Rate	< 1.0	(butyl acetate = 1)	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not determined	@68° F(20°C)	
Vapor Density	Not determined	(Air=1)	
Specific Gravity	1.06 - 1.08	(1=Water)	
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 Properties	Not determined		
Oxidizing Properties	Not determined		
VOC Content (%)	Not determined		

10. STABILITY AND REACTIVITY

Reactivity Reacts violently with strong acid substances. May react with oxidizing agents.

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Incompatible Materials.

Incompatible Materials See SECTION 7

Hazardous Decomposition Products Thermal decomposition and combustion are not expected to occur except under extreme conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact Causes severe eye damage.
 Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
 Permanent eye damage including blindness could result.

Skin Contact	Causes severe skin burns. Symptoms: Burning pain and severe corrosive skin damage
Inhalation	Harmful if inhaled.
Ingestion	May be harmful if swallowed.

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

Acute Effects	Exposure to alkaline solutions may result in irritation to any contact tissue, including possible burns, depending on the concentration, duration, and nature of the exposure
Chronic Effects	Not determined

Information on physical, chemical and toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide 1310-73-2	-	1350 mg/kg (Rabbit)	-
Sodium metasilicate 6834-92-0	1,125-1,1349 mg/kg (Rat)	Corr 4 hr (Rabbit) OECD Test Guideline 404	
Ethylene Glycol Monobutyl Ether 111-76-2	470 mg/kg (Rat)	2270 mg/kg (Rat) 220 mg/kg (Rabbit)	2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h

Carcinogenicity	No data available
Reproductive Toxicity	No data available
STOT- single exposure	May cause respiratory Irritation
Additional Information	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Acute Hazard to aquatic environment

Component Information

Chemical Name	Algae/aquatic plants	Fish LC50	Crustacea
Sodium hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	
Sodium metasilicate 6834-92-0		Danio Rerio (Zebra fish) 210 mg/L 96 hr Semi-static test (ISO 7346/1)	Daphnia magna 216 mg/L 96 h EC50
Ethylene Glycol Monobutyl Ether 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50

Persistence/Degradability No data available

Bioaccumulation No data available

Mobility The substance is expected to remain in the water phase due to high water solubility

Chemical Name	Partition Coefficient
Ethylene Glycol Monobutyl Ether 111-76-2	0.81

Other Adverse Effects Not determined

13. DISPOSAL CONSIDERATIONS

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

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories The component(s) this product comply with the inventory requirements by the countries: (X=listed)

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	INSQ	KECL	AICS
Sodium Metasilicates 6834-92-0	X	X		X		X	X	X	X
Tri-sodium phosphate 10101-89-0	X						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*
- INSQ - Mexico National Inventory of 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 Regulations

CERCLA This material contains a component with a CERCLA RQ

Chemical Name	Hazardous Substances RQs	Reportable Quantity (RQ)
Sodium hydroxide 1310-73-2	1000 lb	RQ 1000 lb final RQ ; RQ 454 kg final RQ

SARA 313 The following component is subject to reporting levels established by SARA Title III, Section 313

Chemical Name	Weight-%	SARA 313-Threshold Values %
Ethylene Glycol Monobutyl Ether 111-76-2	1-5	1.0

Component	CWA - Reportable Quantities	CWA - Hazardous Substances
Sodium hydroxide 1310-76-2	1000 lb	X

SARA 311/312 Hazardous Chemical Acute Health Hazard

California Proposition 65 This product does not contain any Prop 65 Chemical

California Hazardous Waste Status Sodium Hydroxide CAS 1310-73-2 Toxic: Corrosive

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium metasilicate	X		X
Ethylene Glycol Monobutyl Ether	X	X	X
Sodium hydroxide	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	Not determined

Issue Date: 04-Aug-2014
 Revision Date: 18-Apr-2018
 Notes: Updated

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