

## 1. IDENTIFICATION

**Product identifier**

**Product Name** Pre-Soak

**Other means of identification**

**SDS #** MOTH-002  
**Product Code** MC-03  
**UN/ID No** UN1760

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Alkaline Pre-Soak – Commercial Vehicle Wash

**Details of the supplier of the safety data sheet**

**Supplier Address**

Mothers Automated Solutions  
PO Box 28661  
Scottsdale, AZ 85255  
1-480-630-0366  
www.mothersautomatedsolutions.com

**Emergency telephone number**

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

## 2. HAZARDS IDENTIFICATION

**Appearance** Amber liquid

**Physical state** Liquid

**Odor** Amine Ether-like

**Classification**

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

**Signal Word**

**Danger**

**Hazard statements**

Harmful if swallowed  
Causes severe skin burns and eye damage  
May be corrosive to metals



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep only in properly labeled and compatible container

**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: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting  
 IN CASE OF SPILL: Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Proprietary alkaline metal salt blend	Proprietary	45-55
Potassium hydroxide	1310-58-3	10-15
Caustic Soda	1310-73-2	1-5
Proprietary biocide	Proprietary	<0.1

\*\*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

**Description of first aid measures**

<b>General Advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor/physician.
<b>Inhalation</b>	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.
<b>Ingestion</b>	IF SWALLOWED: call a poison control center or physician immediately. Rinse mouth. Do NOT induce vomiting.

**Self-Protection of the First Aider** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Irritation and corrosive burns to mouth, throat, and stomach. May cause respiratory irritation.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Treat symptomatically and supportively.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

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

**Unsuitable Extinguishing Media** None known.

**Specific Hazards Arising from the Chemical**

None known.

**Hazardous combustion products** Smoke, fumes or vapors, and oxides of carbon.

**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** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For Emergency Responders** Follow all fire fighting procedures in Section 5. Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for additional Ecological Information.

**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** Keep in suitable, closed containers for disposal. For waste disposal, see section 13 of the SDS.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Keep in the original container or an approved alternative made from compatible material, kept tightly closed when not in use.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in accordance with local regulations.

**Incompatible Materials** Incompatible with strong acids and bases. Incompatible with oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	-	Ceiling: 2 mg/m <sup>3</sup>
Caustic Soda 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles). Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Suitable protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**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

<b>Physical state</b>	Liquid	<b>Odor</b>	Amine Ether-like
<b>Appearance</b>	Amber liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Amber		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	>14		
<b>Melting point / freezing point</b>	No data available		
<b>Initial boiling point and boiling range</b>	No data available		
<b>Flash point</b>	No data available		

<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable
<b>Flammability Limit in Air</b>	
<b>Upper flammability or explosive limits</b>	No data available
<b>Lower flammability or explosive limits</b>	No data available
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	No data available
<b>Relative Density</b>	1.21-1.25
<b>Water Solubility</b>	Not determined
<b>Solubility in other solvents</b>	Not determined
<b>Partition Coefficient</b>	Not determined
<b>Autoignition temperature</b>	No data available
<b>Decomposition temperature</b>	Not determined
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	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.

### Conditions to Avoid

Incompatible Materials.

### Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Causes severe eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Inhalation</b>	Avoid inhalation.
<b>Ingestion</b>	Harmful if swallowed.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary alkaline metal salt blend	> 90 mL/kg ( Rat )	-	-
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	-	-
Caustic Soda 1310-73-2	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	-
Proprietary biocide	= 1020 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

**Symptoms related to the physical, chemical and toxicological characteristics**

**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**

**Oral LD50** <2,000 mg/kg  
**Dermal LD50** >2,000 mg/kg  
**ATEmix (inhalation-dust/mist)** >5 mg/l

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Caustic Soda 1310-73-2		LC50: =45.4mg/L (96h, Oncorhynchus mykiss)	

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

Chemical name	Partition coefficient
Potassium hydroxide 1310-58-3	0.83
Proprietary biocide	0.99

**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.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical name	California Hazardous Waste Status
Potassium hydroxide 1310-58-3	Toxic Corrosive
Caustic Soda 1310-73-2	Toxic Corrosive

**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 UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s. (potassium hydroxide, sodium hydroxide)  
 Transport hazard class(es) 8  
 Packing Group II

**IATA**

UN number or ID number UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s. (potassium hydroxide, sodium hydroxide)  
 Transport hazard class(es) 8  
 Packing group II

**IMDG**

UN number or ID number UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s. (potassium hydroxide, sodium hydroxide)  
 Transport hazard class(es) 8  
 Packing Group II

**15. REGULATORY INFORMATION****International Inventories**

All ingredients are listed or exempt from listing on Chemical Substance Inventory

**US Federal Regulations****CERCLA**

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Caustic Soda 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**SARA 313**

Not determined

**CWA (Clean Water Act)**

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide	1000 lb			X
Caustic Soda	1000 lb			X

**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
Potassium hydroxide 1310-58-3	X	X	X
Caustic Soda 1310-73-2	X	X	X

**16. OTHER INFORMATION****NFPA**

Health hazards

Flammability

Instability

Special hazards

-

-

-

-

**HMIS**

Health hazards

Flammability

Physical hazards

Personal Protection

-

-

-

Not determined

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**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**