



## Material Safety Data Sheet

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Mighty Green  
**SYNONYMS:** NA  
**PRODUCT CODES:** 100471

**MANUFACTURER:** Theocem Laboratories Inc  
**ADDRESS:** 7373 Rowlett Park Drive  
Tampa, FL 33610-1141

**EMERGENCY PHONE:** ChemTel: North America: 1-800-255-3924  
International: +01-813-248-0585

**CHEMICAL NAME:** Mixture  
**CHEMICAL FAMILY:** NA  
**CHEMICAL FORMULA:** NA  
**PRODUCT USE:** Cleaner/Degreaser  
**PREPARED BY:** TGD  
**REVISION NUMBER:** 1.2  
**MSDS REVISION DATE:** 09/29/2010

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Components listed in this section may contribute to the potential hazards associated with exposure to the concentrate. The product may contain additional non-hazardous or trade-secret components.

#### INGREDIENT:

	<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
Sodium Hydroxide	1310-73-2	< 5 %	NA	Yes
Sodium Hydroxide				
	<u>ppm</u>	<u>mg/m<sup>3</sup></u>		
OSHA PEL-TWA:	NA	2 mg/m <sup>3</sup>		
OSHA PEL STEL:	NA	NA		
OSHA PEL CEILING:	NA	NA		
ACGIH TLV-TWA:	NA	2 mg/m <sup>3</sup>		
ACGIH TLV STEL:	NA	NA		
ACGIH TLV CEILING:	NA	NA		

### SECTION 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

#### ROUTE(S) OF ENTRY:

#### POTENTIAL HEALTH EFFECTS SHORT TERM/ACUTE EXPOSURE:

**Eyes:** Yes      **Inhalation:** Yes      **Skin:** Yes      **Ingestion:** Yes

**EYES:** Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

**SKIN:** Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

**INHALATION:** Severe irritant. Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur.

**INGESTION:** Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appear days after exposure.

**CHRONIC HEALTH HAZARDS:** Prolonged contact with dilute solutions or dust has a destructive effect upon tissue.

**CARCINOGENICITY:** NTP: NO                      ARC Monographs: NO                      OSHA Regulated: NO

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

---

#### **SECTION 4: FIRST AID MEASURES**

---

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**SKIN:** 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

**INGESTION:** DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

---

#### **SECTION 5: FIRE-FIGHTING MEASURES**

---

**FIRE AND EXPLOSIVE PROPERTIES:**

**FLAMMABLE LIMITS IN AIR, UPPER:** None  
(% BY VOLUME)                      **LOWER:** None

**FLASH POINT:** (Closed Cup):                      None  
**FLAMMABLE LIMITS:**                                      None

**AUTOIGNITION TEMPERATURE:** None Known

**NFPA HAZARD CLASSIFICATION**

**HEALTH:** 3                                      **FLAMMABILITY:** 0                                      **REACTIVITY:** 1                                      **OTHER:** NA

**HMIS HAZARD CLASSIFICATION**

**HEALTH:** 3                                      **FLAMMABILITY:** 0                                      **REACTIVITY:** 1                                      **PROTECTION:** NA

**EXTINGUISHING MEDIA:** Use any means suitable for extinguishing surrounding fire. Adding water to caustic solution generates large amounts of heat.

**SPECIAL FIRE FIGHTING PROCEDURES:** None

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not considered to be a fire hazard. Hot or molten material can react violently with water.

Can react with certain metals, such as aluminum, to generate flammable hydrogen gas.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

---

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

---

**CLEAN-UP MEASURES:** Stop spill or leak if it can be done safely. Contain spill to smallest possible area. Large spills should be recovered for disposal. Waste materials should be disposed of in accordance with all local, state and federal regulations. Transfer contaminated absorbent, soil and other materials to containers for disposal

---

**SECTION 7: HANDLING AND STORAGE**

---

**HANDLING:** As with any chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Open containers slowly to relieve any pressure. Follow all other standard industrial hygiene practices. Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty drums and containers. Keep containers closed when not in use.

**STORAGE:** Store in a cool, dry area away from combustibles and reactive chemicals. Store away from sources of ignition. Do not store at temperatures above 120 °F.

**OTHER PRECAUTIONS:** For Industrial & Institutional use only.

---

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**ENGINEERING CONTROLS:** Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels. The user may wish to refer to 29 CFR 1910.1000(d)(2) and the ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

**RESPIRATORY PROTECTION:** None needed during normal usage.

**EYE PROTECTION:** Wear protective eyewear to prevent accidental exposure. Wear eye protection appropriate to prevent eye exposure.

**SKIN PROTECTION:** Chemically resistant gloves are recommended to prevent exposure.

**OTHER PERSONAL PROTECTIVE EQUIPMENT:** Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I.

**HYGIENIC PRACTICES:** Wash hands after use. Keep containers closed when not in use.

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

<b>APPEARANCE:</b>	Thin, Green Liquid
<b>ODOR:</b>	Surfactant Odor
<b>PHYSICAL STATE:</b>	Liquid
<b>pH AS SUPPLIED:</b>	12.0 – 13.5
<b>BOILING POINT:</b>	212 °F
<b>MELTING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA
<b>VAPOR PRESSURE (mmHg):</b>	Same as water
<b>VAPOR DENSITY (AIR = 1):</b>	NA
<b>SPECIFIC GRAVITY):</b>	1.06 – 1.07

**EVAPORATION RATE:** < 1 (BuAc = 1)  
**SOLUBILITY IN WATER:** 100 %  
**PERCENT SOLIDS BY WEIGHT:** NA  
**PERCENT VOLATILE:** NA  
**MOLECULAR WEIGHT:** Mixture  
**VISCOSITY:** NA

---

**SECTION 10: STABILITY AND REACTIVITY**

---

**STABILITY:** Product is Stable  
**CONDITIONS TO AVOID (STABILITY):** Extreme Temperatures  
**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong Oxidizers and Acids  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID (POLYMERIZATION):** Will not polymerize

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

---

**EYE EFFECTS:** No further toxicological data known.  
**SKIN EFFECTS:** No further toxicological data known.  
**ORAL EFFECTS:** No further toxicological data known.  
**INHALATION EFFECTS:** No further toxicological data known.  
**OTHER:** No further data known.

---

**SECTION 12: ECOLOGICAL INFORMATION**

---

**ECOTOXICOLOGICAL INFORMATION:** This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.  
**ENVIRONMENTAL FATE:** Not Known

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

---

**WASTE DISPOSAL METHOD:** Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. Note that use, mixture, processing, or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.

**RCRA HAZARD CLASS:** NA

---

**SECTION 14: TRANSPORT INFORMATION**

---

**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

Corrosive Liquids n.o.s. (contains Sodium Hydroxide)  
Class 8  
UN1760

Page 4 of 5

**PACKING GROUP:** III  
**EXCEPTIONS:** 173.154 Limited Quantity or Consumer Commodity ORM-D  
**LABEL STATEMENT:** Caution

**WATER TRANSPORTATION** Corrosive Liquids n.o.s. (contains Sodium Hydroxide)  
**HAZARD CLASS:** Class 8  
**ID NUMBER:** UN1760  
**PACKING GROUP:** III

**AIR TRANSPORTATION** Not applicable

**OTHER AGENCIES:** Not regulated

---

**SECTION 15: REGULATORY INFORMATION**

---

**U.S. FEDERAL REGULATIONS**

**SARA 313:** This product contains one of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**CLEAN WATER ACT / OIL POLLUTION ACT:** This product contains none of the chemicals subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

**CERCLA REPORTABLE QUANTITY:** Any components listed below have been assigned a reportable quantity (RQ) by the Federal EPA. Release of the product into the environment that exceed the RQ for a particular component must be reported to the National Response Center at 1-800-424-8802.

**COMPONENT:** Sodiun Hydroxide 1000 lbs

**TOXIC SUBSTANCES CONTROL ACT:** The components of this product are listed on the TSCA Inventory.

**OZONE DEPLETING SUBSTANCES:** This product contains no ozone depleting substances as defined by the Clean Air Act.

**HAZARDOUS AIR POLLUTANTS:** Any components listed below are defined by the Federal EPA as hazardous air pollutants. **COMPONENT:** None

**STATE REGULATIONS:** Check with the appropriate state agency to determine whether regulations exists.

**INTERNATIONAL REGULATIONS:** NA

---

**SECTION 16: OTHER INFORMATION**

---

**PREPARED BY:** Department of Regulatory Compliance

**DATE OF ISSUE:** 3/06/06 **DATE OF LAST REVISION:** 09/29/2010

*We believe the information given is accurate. It is offered in good faith, but without guarantee. Since conditions are beyond our control, user assumes all responsibility and risk.*