



# MARTRON INC. SAFETY DATA SHEET MARTRON LM DEGREASER

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## PRODUCT and COMPANY IDENTIFICATION

**Product Identifier:** MARTRON LM DEGREASER  
**Product Number:** MFC-000012

**Revision Date:** 10/19/2016  
**Version:** 1

**Supplier Details:** Martron Inc.  
1394-A Walkup Ave.  
Monroe, NC 28110  
704-289-1934

**Website:** [www.martroninc.com](http://www.martroninc.com)

**Emergency Number:** CHEMTREC 800-424-9300

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## HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture:

#### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 1 A  
Physical, Corrosive to metals, 1  
Health, Acute toxicity, 4 Inhalation  
Health, Acute toxicity, 4 Oral  
Environmental, Hazards to the aquatic environment - Acute, 3

#### GHS Label Elements, Including Precautionary Statements:

##### GHS Hazard Pictograms:



#### GHS Signal Word:

**DANGER**

#### GHS Hazard Statements:

H314 - Causes severe skin burns and eye damage.  
H290 - May be corrosive to metals.  
H332 - Harmful if inhaled.  
H302 - Harmful if swallowed.  
H402 - Harmful to aquatic life.

#### GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P301+330+331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

**3****COMPOSITION / INFORMATION ON INGREDIENTS****Ingredients:**

<b>CAS #</b>	<b>%</b>	<b>Chemical Name</b>
1310-73-2	1-2%	Sodium Hydroxide
111-76-2	10%	2-Butoxy-1-Ethanol

The specific chemical identity and/or exact percentages are being withheld as a trade secret (CBI). All chemicals in this product are reported in the EPA TSCA Inventory.

**4****FIRST AID MEASURES****Inhalation:**

If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

**Skin Contact:**

Promptly flush skin with water. If irritation persists, obtain medical attention.

**Eye Contact:**

Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Contact a physician if redness persists.

**Ingestion:**

Give 1-2 glasses of water. Do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Consult a physician.

**5****FIREFIGHTING MEASURES****Extinguishing Media:**

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Unsuitable Extinguishing Media:**

Not applicable.

**Hazardous Combustion Products:**

Not applicable.

**Special Exposure Hazards:**

Contact with some metals, particularly magnesium, aluminum, and zinc can rapidly generate hydrogen, which is explosive.

**Special Protective Equipment:**

Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

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## ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:**

Use appropriate protective equipment. (See Section 8.) Do not get into eyes, skin, or clothing. Wear respiratory protection. Avoid breathing vapors. Ensure adequate ventilation.

**Environmental Precautionary Measures:**

Do not empty into drains.

**Methods and Materials for Containment and Cleanup:**

This material may be neutralized with dilute acid for disposal. Do not discharge into waste water treatment until liquid residues have been neutralized with dilute acid (pH 6-9). Place in a non-leaking container for proper disposal according to Federal, State, and Local regulations.

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## HANDLING and STORAGE

**Handling Precautions:**

Use in a well-ventilated area. Do not breathe vapors. Do not get on skin, eyes, or clothing.

**Storage Requirements:**

Store between 50-80°F. Keep container closed and in a well-ventilated area.

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## EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:**

Use in well ventilated area.

Benzene Sulfonic Acid, Dimethyl-, Sodium Salt (1300-72-7) [4%]

**Personal Protective Equipment:****Respiratory protection:**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye Protection:**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and Body Protection - Impervious Clothing:**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Sodium Hydroxide (1310-73-2) [1.4%]

**Personal protective equipment:****Eye/Face Protection:**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full Contact:**

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740/Aldrich Z677272, Size M)

**Splash Contact:**

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740/Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of Environmental Exposure:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

2-Butoxy-1-Ethanol (111-76-2) [8.4%]

**Full Contact:**

Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested: Camatril (KCL 730/Aldrich Z677442, Size M)

**Splash Contact:**

Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 30 min Material tested: Dermatril P (KCL 743/Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Benzene Sulfonic Acid, Dimethyl-, Sodium Salt (1300-72-7) [4%] :

No data available

Sodium Hydroxide (1310-73-2) [1.4%]

Components with workplace control parameters

CEIL 2 mg/m3 USA. ACGIH Threshold Limit Values (TLV)

C 2 mg/m3 USA.OSHA – TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA 2 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

C 2 mg/m3 USA. ACGIH Threshold Limit Values (TLV)

Eye, skin, & Upper Respiratory Tract irritation

C 2 mg/m3 USA. NIOSH Recommended Exposure Limits

2-Butoxy-1-Ethanol (111-76-2) [8.4%]

Components with workplace control parameters

TWA 20 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract Irritation

Confirmed animal carcinogen with unknown relevance to humans

TWA 5 ppm USA. NIOSH Recommended 24 mg/m3 Exposure Limits

Potential for dermal absorption

TWA 50 ppm USA. Occupational Exposure Limits  
240 mg/m3 (OSHA) - Table Z-1 Limits for Air Contaminants

Skin designation

The value in mg/m3 is approximate.

TWA 25 ppm USA. OSHA - TABLE Z-1 Limits for  
120 mg/m3 Air Contaminants - 1910.1000 Skin notation

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**PHYSICAL and CHEMICAL PROPERTIES**

**Appearance:** Blue liquid  
**Physical State:** Liquid  
**Odor:** Solvent  
**pH:** 10-11.5  
**Solubility:** Soluble in water.

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**STABILITY and REACTIVITY**

**Chemical Stability:**  
Stable under normal conditions.

**Conditions to Avoid:**  
Open flame and excessive heat.

**Materials to Avoid:**  
Avoid contact with strong oxidizing agents.

**Hazardous Decomposition:**  
Oxides of carbon. Other unknown decomposition possible.

**Hazardous Polymerization:**  
Will not occur.

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**TOXICOLOGICAL INFORMATION**

Sodium hydroxide CAS #: (1310-73-2) [1-2%]

**Information on Toxicological effects:**

**Acute Toxicity:**  
No data available

**Inhalation:**  
No data available

**Dermal:**

No data available

**Skin Corrosion/Irritation:**

Skin - rabbit Result: Causes severe burns. - 24 h

**Serious Eye Damage/Eye Irritation:**

Eyes - rabbit Result: Corrosive - 24 h

**Respiratory or Skin Sensitization:**

Will not occur

**Germ Cell Mutagenicity:**

No data available

**Carcinogenicity:**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:**

No data available

**Specific Target Organ Toxicity - Single Exposure:**

No data available

**Specific Target Organ Toxicity - Repeated Exposure:**

No data available

**Aspiration Hazard:**

No data available

**Additional Information:****RTECS:**

WB4900000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.  
2-Butoxy-1-ethanol CAS #: (111-76-2) [10%]

**Information on Toxicological Effects:****Acute Toxicity:**

LD50 Oral - rat - 470 mg/kg

LC50 Inhalation - rat - 4 h - 450 ppm Remarks: Behavioral: Ataxia. Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

LD50 Dermal - rabbit - 220 mg/kg

LD50 Intraperitoneal - rat - 220 mg/kg

LD50 Intravenous - rat - 307 mg/kg

**Skin Corrosion/Irritation:**

Skin - rabbit Result: Open irritation test

**Serious Eye Damage/Eye Irritation:**

Eyes - rabbit Result: Moderate eye irritation - 24 h

**Respiratory or Skin Sensitization:**

No data available

**Germ Cell Mutagenicity:**

No data available

**Carcinogenicity:**

**IARC:** 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:**

No data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

**Specific Target Organ Toxicity - Single Exposure:**

No data available.

**Specific Target Organ Toxicity - Repeated Exposure:**

No data available

**Aspiration Hazard:**

No data available

**Additional Information:****RTECS:**

KJ8575000

Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis

Stomach - Irregularities - Based on Human Evidence

Sodium hydroxide CAS #: (1310-73-2) [1-2%]

**Information on Ecological Effects****Toxicity:**

Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h.

LC50 - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h

Toxicity to daphnia and Immobilization

EC50 - Daphnia - 40.38 mg/l - 48 h. other aquatic invertebrates

**Persistence and Degradability:**

The methods for determining the biological degradability are not applicable to inorganic substances.

**Bio-Accumulative Potential:**

No data available

**Mobility in Soil:**

No data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other Adverse Effects:**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

2-Butoxy-1-Ethanol CAS #: (111-76-2) [10%]

**Information on Ecological Effects:**

**Toxicity:**

Toxicity to fish LC50 - other fish - 220 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h. other aquatic invertebrates

**Persistence and Degradability:**

No data available

Ratio BOD/ThBOD 88 %

**Bio-Accumulative Potential:**

No data available

**Mobility in Soil:**

No data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other Adverse Effects:**

No data available

**13 DISPOSAL CONSIDERATIONS**

**Product:**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of waste material in accordance with all local, regional, national, and international regulations

**Contaminated Packaging:**

Dispose of as unused product.

**14 TRANSPORT INFORMATION**

**USDOT:** Not regulated

**Marine Pollutant:** No

**15 REGULATORY INFORMATION**

**Component (CAS#) [%] - Codes**

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 RQ (1000LBS), Sodium hydroxide (1310-73-2) [1-2%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

2-Butoxy-1-ethanol (111-76-2) [10%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR



**Regulatory Code Descriptions:**

**RQ** = Reportable Quantity

**CERCLA** = Superfund cleanup substance

**CSWHS** = Clean Water Act Hazardous substances

**MASS** = MA Massachusetts Hazardous Substances List

**OSHA** = OSHA Workplace Air Contaminants

**PA** = PA Right-To-Know List of Hazardous Substances

**TSCA** = Toxic Substances Control Act

**TXAIR** = TX Air Contaminants with Health Effects Screening Level

**16 OTHER INFORMATION**

**HMIS III:**

Health = 3

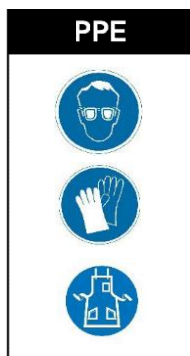
Fire = 1

Physical Hazard = 1

**HMIS PPE:**

C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	C



**IMPORTANT NOTE:**

To the best of our knowledge, the information contained herein is accurate. However, **Martron Inc.** assumes no liability whatsoever for the accuracy or completeness of the information. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of the suitability of any material is the sole responsibility of the user.