



**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

Product Name:	MUSCLE	Phone Number:	(910)738-1166
Product Use:	Heavy Duty Cleaner	D.O.T. Emergency Phone:	Chem-Tel (800)255-3924
Company Identification:	image supply, Inc. P.O. Box 1108 Lumberton, NC 28360	Date of Preparation:	April 9, 1996
		Revision Date:	October 5, 2014 Rev. No. 3

**Section 2: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**



**DANGER**

**CORROSIVE:** Causes Severe Skin Burns and eye damage

**Precautionary Statement – Prevention**

Wear personal protective equipment as required.  
Wash thoroughly after handling.  
Do not breathe dust or mist.

**Precautionary statement - Storage**

Store locked up.

**Precautionary Statement – Response**

**Target Organ:** Skin, eyes, gastrointestinal tract

**IF ON SKIN:** Remove/Take off immediately all contaminated clothing. Rinse skin with Water

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

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove to fresh air and deep at rest in a position comfortable for breathing.

**Precautionary Statement – Disposal**

Dispose of contents/container in accordance with local and national regulations.

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

<b>Ingredient</b>	<b>CAS#</b>	<b>Wt. %</b>
*Butyl cellosolve (2-Butoxyethanol)	111-76-2	Trade Secret
Sodium Metasilicate Penta	6834-92-0	Trade Secret
Caustic Potash	1310-58-3	Trade Secret

**SECTION 313 SUPPLIER NOTIFICATION**

\* Indicates hazardous ingredients which are toxic chemicals subject to the reporting requirements of section 313 of THE EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW ACT OF 1986 and of 40 CFR 372.  
The chemical name, CAS #, and percent by weight must be included in all SDS copied and distributed for this material.

**Section 4: FIRST AID MEASURES**

**Eye Contact:** Immediately flush eyes with plenty of water for 15 -20 minutes, seek medical attention.

**Skin Contact:** Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Call a physician if irritation develops and persists.

**Inhalation:** If difficulty or discomfort in breathing is experienced, remove to fresh air and get medical attention.

**Ingestion:** Harmful or fatal if swallowed. Give several glasses of water followed by citrus juice or vinegar. Get medical attention.

**Section 5: FIRE FIGHTING MEASURES**

**Flammability:** Not flammable by WHMIS/OSHA criteria

**Means of Extinction:**

**Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.

**Products of Combustion:** None

**Explosion Data:**

**Sensitivity to Mechanical Impact:** Not Available.

**Sensitivity of Static Discharge:** Not Available.

**Protection of Firefighters:** Containers may explode when heated. Keep up wind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use personal protection recommended in Section 8. Isolate the hazard area and Deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.
<b>Environmental Precautions:</b>	Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
<b>Methods for Containment:</b>	Absorb large spills with floor dry material (see disposal below). Small spills: Flush with water and pick up with mop or wet vacuum.
<b>Waste Disposal Method:</b>	Dispose of in accordance with state or local regulations. EPA Hazardous Waste Classification: Corrosive (pH = 13 on concentrate). Do not dispose of in storm drains or streams.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.
<b>Storage:</b>	Keep out of the reach of children. Keep from freezing. Keep container closed. Do not pressure container to close.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines:

Ingredient	OSHA-PEL	ACGIH-TLV
Butyl cellosolve (2-Butoxyethanol)	50 PPM	20 PPM
Sodium Metasilicate Penta	N/A	N/A
Caustic Potash	N/A	N/A

<b>Engineering Controls:</b>	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
<b>Personal Protective Equipment:</b>	
<b>Eye/Face Protection:</b>	Wear eye/face protection. Goggles
<b>Hand Protection:</b>	Alkali Resistant Gloves
<b>Skin and Body Protection:</b>	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	Ventilate to keep air below TLV. A NIOSH approved respirator for organic vapor should be worn if needed to keep level below TLV.
<b>General Hygiene Consideration:</b>	Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b> 212 Degrees F	<b>Spec. Gravity:</b> (Water=1): 1.05
<b>Volatile</b> (% by Volume, 80%)	<b>Melting Point:</b> N/A
<b>Evaporation Rate:</b> N/A	<b>Vapor Density:</b> Same as Water
<b>Solubility in Water:</b> Complete 13.1-13.3	<b>Approx. Product Weight:</b> 10 LBS/GAL
<b>Appearance and Odor:</b> Thin Green liquid-butyl odor	

## Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.
<b>Conditions of Reactivity:</b>	Heat. Incompatible materials.
<b>Incompatible Materials:</b>	Acids, Ammonium salts, Amines, Activated Carbon, Cyanides, Reducers, Zinc. May react with Secondary/Tertiary Amines to form Nitrosamines.
<b>Hazardous Decompositions Products:</b>	May include, and are not limited to: Carbondioxide, Carbonmonoxide, Oxides of Nitrogen
<b>Possibility of Hazardous Reactions:</b>	No dangerous reaction known under conditions of normal use.

## Section 11: TOXICOLOGY INFORMATION

### EFFECTS OF ACUTE EXPOSURE

#### Component Analysis

Ingredients	LD50 (irak)	LC50
Butyl cellosolve (2-Butoxyethanol)	Not Available	Not Available
Sodium Metasilicate Penta	Not Available	Not Available
Caustic Potash	Not Available	Not Available

<b>Eye:</b>	Direct Contact of product with eyes can cause severe irritation and damage.
<b>Skin:</b>	Prolonged or repeated contact of product with skin may cause irritation.
<b>Ingestion:</b>	Not a normal route of exposure. May cause burns. Harmful: may cause lung damage if swallowed.
<b>Inhalation:</b>	Product spray mist or fog may cause irritation to nose, throat and lungs if adequate ventilation is not employed.

### EFFECTS OF CHRONIC EXPOSURE

<b>Chronic Effects:</b>	Existing Dermatitis may be aggravated by exposure.
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**Carcinogenicity:** Not hazardous by WHMIS/OSHA criteria.

<b>Ingredient</b>	<b>Chemical Listed as Carcinogen or Potential Carcinogen*</b>
Sodium Metasilicate Penta	Not Listed
Butyl cellulolve	Not Listed

**Mutagenicity:** Not hazardous by WHMIS/OSHA criteria.  
**Reproductive Effects:** Not hazardous by WHMIS/OSHA criteria.  
**Developmental Effects:**

<b>Teratogenicity:</b>	Not hazardous by WHMIS/OSHA criteria.
<b>Embryotoxicity:</b>	Not hazardous by WHMIS/OSHA criteria.
<b>Respiratory Sensitization:</b>	Not hazardous by WHMIS/OSHA criteria.
<b>Skin Sensitization:</b>	Not hazardous by WHMIS/OSHA criteria.
<b>Toxicologically Synergistic Materials:</b>	Not available.

#### Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	May cause long-term adverse effects in the aquatic environment.
<b>Persistence / Degradability:</b>	Not available.
<b>Bioaccumulation / Accumulation:</b>	Not available.
<b>Mobility in Environment:</b>	Not available.

#### Section 13: DISPOSAL CONSIDERATIONS

**Disposal Instructions:**  
This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

#### Section 14: TRANSPORTATION INFORMATION

**Applicable regulations:** 49 CFR = yes; IMCO = no; IATA = no  
**Proper shipping name:** Potassium Hydroxide  
**Hazardous waste characteristics:**  
**Ignitability** = not applicable; **Corrosivity** = yes; **Reactivity** = not applicable

**DOT Classification:**  
**Compounds, Cleaning Liquid (contains Potassium Hydroxide),8, NA1760, PG II**

#### Section 15: REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:**  
Unless otherwise specified in Section 3 of this document, this product is not and does not contain any "Hazardous Chemicals", as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Section 16: OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy and completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that they are the only hazards that exist.