

Section 1 - Identification

Product Name: Mighty Max Plus (22410)

GCE Inc.
1580 Beaver Ruin Road
Norcross, GA 30093
770-921-0397

Emergency Phone: 800-535-5053

Product Use: Industrial Degreaser

Section 2 - Hazards Identification

GHS Ratings:

| | | |
|------------------|----|---|
| Flammable liquid | 4 | Flash point $\geq 60^{\circ}\text{C}$ (140°F) and $\leq 93^{\circ}\text{C}$ (200°F) |
| Skin corrosive | 1A | Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal |
| Eye corrosive | 1 | Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5 |
| Skin sensitizer | 1 | Skin sensitizer |

GHS Hazards

| | |
|------|---|
| H227 | Combustible liquid |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |

GHS Precautions

| | |
|----------------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking |
| P235 | Keep cool |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray |
| P264 | Wash hands thoroughly after handling |
| P272 | Contaminated work clothing should not be allowed out of the workplace |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P310 | Immediately call a POISON CENTER or doctor/physician if you feel unwell after exposure of this product |
| P321 | Specific treatment (see First Aid below or label) |
| P363 | Wash contaminated clothing before reuse |
| P301+P330+P331 | IF SWALLOWED: Call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting |
| P302+P352 | IF ON SKIN: Wash with soap and water |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P333+P313 | If skin irritation or a rash occurs: Get medical advice/attention |
| P370+P378 | In case of fire: Use Section 5 recommendations for extinction |
| P405 | Store locked up |
| P403+P235 | Store in a well ventilated place. Keep cool |
| P501 | Dispose of contents/container in conformance with State, Local, and Federal regulations. |



Section 3 - Composition, Information on Ingredients

| Chemical Name | CAS number | Weight Concentration % |
|---|------------|------------------------|
| 2-butoxyethanol | 111-76-2 | 5.00% - 10.00% |
| Proprietary Surfactants | 68439-46-3 | 1.00% - 5.00% |
| Disodium oxosilanediolate | 6834-92-0 | 1.00% - 5.00% |
| Onium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkylimidazoliumhydroxides, disodium salts | 68604-71-7 | 1.00% - 5.00% |

Section 4 - First Aid Measures

INHALATION: If inhalation of mists, vapors, or spray occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY. There is no specific antidote, treat symptomatically.

EYE CONTACT: Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present and easy to do. Continue rinsing. GET MEDICAL ATTENTION IMMEDIATELY. Washing eyes within several seconds is essential to achieve maximum effectiveness.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.

INGESTION: If swallowed, do not induce vomiting. For definite or probable ingestion, do not administer oral fluids. If vomiting occurs spontaneously, keep airway clear. Monitor airway. Volume resuscitation (IV fluids) and circulatory support (CPR) may be required. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

Notes to Physician: Medical observation and assessment is recommended for all ingestions, all eye exposures, and symptomatic inhalation and dermal exposures. For symptomatic ingestion, do not administer oral fluids and consider investigation by endoscopy, X-ray, or CT scan. Esophageal perforation, airway compromise, hypotension, and shock are possible. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation. Surgical intervention may be required.

Section 5 - Fire Fighting Measures

Flash Point: 61 C (142 F)

LEL: 1.00

UEL: 11.00

Fire Hazard: Negligible fire hazard.

Flash point: Not flammable

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire.

Sensitivity to Mechanical Impact: Not sensitive. **Sensitivity to Static Discharge:** Not sensitive. **GHS:Physical Hazards:** - Corrosive to Metals

Hazardous Decomposition:
Toxic Vapors of Sodium Oxide

Fire Fighting: Move container from fire area if it can be done without risk. Cool containers with water. Avoid contact with skin. Do not apply water directly on this product. Heat is generated when mixed with water. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode.

Section 6 - Accidental Release Measures

Personal Precautions: Do not get in eyes, on skin or on clothing. Avoid breathing mist, vapor, or spray. Do not ingest. Wear appropriate personal protective equipment recommended in Section 8 of the SDS.

Methods and Materials for Containment and Cleaning Up: In case of spill or leak, stop the leak as soon as possible, if safe to do so. Completely contain spilled materials with dikes, sandbags, etc. Shovel dry material into suitable container. Liquid material may be removed with a vacuum truck. Remaining material may be diluted with water and neutralized with dilute acid, then absorbed and collected. Flush spill area with water, if appropriate.

Environmental Precautions: Keep out of water supplies and sewers. Do not flush into surface water or sanitary sewer system. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

Section 7 - Handling & Storage

Handling Procedures: Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not ingest. Do not eat, drink or smoke in areas where this material is used. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. NEVER add water to product. When mixing, slowly add to water to minimize heat generation and spattering.

Storage Conditions: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances (see Section 10 of SDS).

Section 8 - Exposure Controls/Personal Protection

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|--|---|-------------------------|-----------------------|
| 2-butoxyethanol 111-76-2 | OSHA Z-1 TWA:240 mg/m3 OSHA Z-1 TWA Absorbed via Skin | TWA 20ppm PE: 50 ppm | Not Established |
| Proprietary Surfactants 68439-46-3 | Not Established | Not Established | Not Established |
| Disodium oxosilanediolate 6834-92-0 | Not Established | Not Established | Not Established |
| Onium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkylimidazoliumhydroxides, disodium salts 68604-71-7 | Not Established | Not Established | Not Established |

ENGINEERING CONTROLS:

Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Respiratory Protection: An approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets applicable regulatory requirements must be followed whenever workplace conditions warrant use of a respirator.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear chemical safety goggles with a faceshield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered.

Hand Protection: Wear appropriate chemical resistant gloves

Protective Material Types: Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Tyvek, Tychem .

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practices. Wash hands and affected skin immediately after handling, before breaks, and at the end of the workday . When using do not eat or drink. When using do not smoke.

Section 9 - Physical & Chemical Properties

| | |
|-------------------------------------|--------------------------------|
| Boiling Range 99 to 171 °C | Appearance Clear Liquid |
| Color Yellow Green | Odor Butyl |
| pH 13 - 14 | Specific Gravity 1.008 |
| Freezing Point 30F | Boiling Range 212F |
| Solubility in Water Complete | Viscosity <=10 |

Section 10 - Stability & Reactivity

Reactivity/ Stability: Stable at normal temperatures and pressures.

Conditions to Avoid: Mixing with acid, or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

STABLE

Incompatibilities:

Strong Oxidizing agents, Strong Acids

Strong Oxidizing agents, Strong Acids, Strong Bases

Reactivity

Corrosive action on metals. Reacts with reducing agents. Reacts with alkali (lyes). Reacts with organic substances. Ammonia (NH₃), fluorine, sulfur trioxide (SO₃), phosphorus pentoxide (P₂O₅). Chemical stability No decomposition if used and stored according to specifications. Possibility of hazardous reactions. Reacts with metals forming hydrogen.

Reacts with alkali (lyes). Conditions to avoid To avoid thermal decomposition do not overheat.

Incompatible materials: Alkalies, Metals, Organic materials.

Hazardous Decomposition:

Toxic Vapors of Sodium Oxide

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids.

Carbon Monoxide and other toxic vapors

None Known

Hazardous polymerization will occur.

Section 11 - Toxicological Information

Mixture Toxicity**Component Toxicity**

| | |
|-----------|---|
| 111-76-2 | 2-butoxyethanol |
| | Oral LD50: 1,300 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rat) |
| 6834-92-0 | Disodium oxosilanediolate |
| | Oral LD50: 1,251 mg/kg (RAT) Dermal LD50: 5,000 mg/kg (RAT) |

ACUTE TOXICITY:

The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Inhalation will cause severe irritation, possible burns with pulmonary edema, which may lead to pneumonitis. Skin contact with this material may cause severe irritation and corrosion of tissue. Repeated exposure may cause dermatitis. Eye contact can cause severe irritation, corrosion with possible corneal damage and blindness. Ingestion may cause irritation, corrosion/ulceration, nausea, and vomiting.

CARCINOGENICITY: This product is not classified as a carcinogen by NTP, IARC or OSHA.

CAS Number

Description

% Weight

Carcinogen Rating

Section 12 - Ecological Information

ECOTOXICITY DATA:

Aquatic Toxicity: This material has exhibited moderate toxicity to aquatic organisms. Data provided are for sodium hydroxide.

Fish Toxicity:

LC50 Brook trout: 25 ppm/ 24 hr

LC50 King salmon: 48 ppm

Invertebrate Toxicity:

LC50 Daphnia magna: 100 ppm

LC50 Shrimp: 33 - 100 ppm/48 hr

LC50 Cockle: 330 - 1000 ppm/48 hr

FATE AND TRANSPORT:

BIODEGRADATION: This material is inorganic and not subject to biodegradation.

PERSISTENCE: This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material is believed to exist in the disassociated state in the environment.

BIOCONCENTRATION: This material is not expected to bioconcentrate in organisms.

ADDITIONAL ECOLOGICAL INFORMATION: This material has exhibited slight toxicity to terrestrial organisms.

Section 13 - Disposal Considerations

Waste from material: Reuse or reprocess, if possible. Dispose in accordance with all applicable regulations. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous Waste Number(s): D002.

Section 14 - Transportation Information

| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|---|------------------|----------------------|---------------------|
| DOT | Compound, Cleaning, Liquid, Not Regulated | | | |

Section 15 - Regulatory Information

- None

Section 16 - Other Information

Hazardous Material Information System (HMIS)

| | |
|---------------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 1 |
| PERSONAL PROTECTION | D |

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

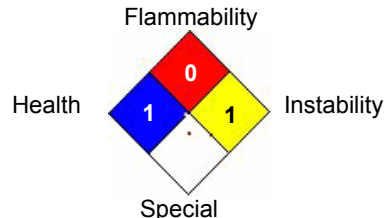
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



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Reviewer Revision 2

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