



SAFETY DATA SHEET

Section 1. Chemical Product & Company Identification

Misco Industrial, LLC 109 Space Park N, Goodlettsville, TN 37072 1-615-334-1861

Product Name: BRUTE FORCE

Product Use: DETERGENT/DEGREASER

Product Code: NONE ASSIGNED

EMERGENCY NUMBER: 1-800-535-5053

Section 2. Hazards Identification

Physical Hazards: Not Classified

Health Hazards: Skin corrosion/irritation Category 1

Serious eye damage/irritation Category 1

Environmental Hazards: Hazardous to aquatic environment/acute hazard Category 3

Hazardous to aquatic environment/long-term hazard Category 3

OSHA Defined Hazards: Not Established

Label Element:



Signal Word: Danger

Hazard Statement: Causes severe skin burns and eye damage. Harmful if swallowed. May be corrosive to metal. Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention): Do not breathe mist or vapor. Wash thoroughly after handling.

Avoid release to the environment. Wear protective gloves/protective eyewear/face protection.

Precautionary Statements (Response): If swallowed: Rinse mouth. DO NOT induce vomiting. If on skin: Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do so. Continue rinsing. Specific treatment: Wash contaminated clothing before re-use.

Precautionary Statements (Storage): Store locked up. Store in original container, in upright position, tightly closed.

Precautionary Statements (Disposal): Follow local/regional/national/international regulations.

Hazards Not Otherwise Classified: None known.

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Section 3. Composition/Information on Ingredients

<u>Name of Hazardous Ingredients:</u>	<u>CAS Number</u>	<u>% by Weight</u>
Sodium Hydroxide	1310-73-2	5-15
Potassium Hydroxide	1310-58-3	2-10
Disodium Trioxosilicate	6834-92-0	1-5

Due to Trade Secret, the exact percentage of composition has been stated as a range. The exact identities of other ingredients has also been withheld as Trade Secret. However, they do not contribute to the identified hazards of the product and will be divulged to proper authorities in an emergency.

Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Skin Contact: Immediately take off all contaminated clothing. Rinse skin with large amounts of water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before re-use.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion: Call a physician or poison control center immediately. Rinse mouth with water. DO NOT induce vomiting. If vomiting occurs, keep head below hips so that stomach contents do not enter lungs.

Most Important Symptoms/Effects, Acute & Delayed: Burning pain and severe corrosive skin damage. Serious eye damage; stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could occur.

Indication of Immediate Medical Attention & Special Treatment Needed: Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide. Do not use water jet as this may spread fire.

Specific Hazards Arising From the Chemical: During fire, gases hazardous to health may be formed.

Protective Equipment and Precautions for Firefighters: Self contained breathing apparatus and full protective clothing.

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Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment & Emergency Procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill. Keep out of low areas. Wear appropriate protective equipment and clothing during clean up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods & Materials for Containment & Cleaning Up: This product is miscible in water. Large spills: stop the flow of material, if this is without risk. Dike the spilled material, where possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small spills: wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spilled material to original container.

Environmental Precautions: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Section 7. Handling and Storage

Precautions for Safe Handling: Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid releases to the environment. Observe good industrial hygiene practices.

Conditions for Safe Storage, including any Incompatibilities: Store locked up. Store in original tightly closed container. Store away from incompatible materials (see sec. 10).

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Guidelines: OSHA: Sodium Hydroxide, PEL 2 mg/m³. ACGIH: Sodium Hydroxide, Potassium Hydroxide, 2 mg/m³, TWA 2mg/m³, NIOSH: Sodium Hydroxide, Ceiling 2 mg/m³. Exposure limits for Disodium Trioxosilicate have not been established, but 2 mg/m³ is recommended.

Appropriate Engineering Controls: Good general ventilation (generally 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

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Individual Protection Measures, Personal Protective Equipment:**Eye/Face:** Wear safety glasses with side shields (or goggles) and a face shield.**Skin/Body:** Wear chemical resistant gloves and chemical resistant clothing.**Respiratory:** In case of insufficient ventilation, wear suitable respiratory equipment.**General Hygiene Considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothes and protective equipment to remove contaminants.***Section 9. Physical & Chemical Properties*****Appearance:** Water-like liquid**Physical State :** Liquid**pH:** >12**Boiling Point:** 275-300 F**Vapor Pressure:** 8-10 mm Hg @ 100 F**Melting Point/Freeze Point:** N/A**Evaporation Rate:** Not available**Upper Flammability Limit:** Not available**Explosive Properties:** Not available**Water Solubility:** Soluble**Decomposition Temperature:** Not available**Oxidizing Properties:** Not available**Color:** COLORLESS**Odor:** Odorless**Odor Threshold:** Not available**Specific Gravity:** 1.077**Flash Point:** Not available**Flammability (solid, gas):** Non-flammable**Lower Flammability Limit:** Not available**Vapor Density:** Not available**Auto-Ignition Temperature:** Not available**Viscosity:** Not available**Other Solubilities:** Not available***Section 10. Stability & Reactivity*****Reactivity:** Reacts violently with strong acids. May react with oxidizing agents.**Chemical Stability:** Stable under normal conditions.**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur.**Conditions to Avoid:** Do not mix with other chemicals. Avoid contact with incompatible materials.**Incompatibility:** Acids, oxidizing agents, halogenated materials. Prolonged contact with alkali sensitive metals or alloys.**Hazardous Polymerization:** Will not occur.**Hazardous Decomposition Products:** Irritating and/or noxious fumes and gases may be emitted upon decomposition. Oxides of sodium.

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Section 11. Toxicological Information**INFORMATION ON LIKELY ROUTES OF EXPOSURE:**

Inhalation: May cause irritation of the respiratory system. Prolonged inhalation may be harmful.

Ingestion: Causes digestive tract burns.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage.

COMPONENT INFORMATION:

<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Sodium Hydroxide	40 mg/kg	40 mg/kg	N/A
Potassium Hydroxide	273 mg/kg	N/A	N/A
Disodium Trioxosilicate	N/A	N/A	N/A

INFORMATION ON PHYSICAL, CHEMICAL, TOXICOLOGICAL EFFECTS:

Symptoms: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

DELAYED & IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT TERM EXPOSURE & LONG TERM EXPOSURE:

Carcinogenicity: Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

Respiratory Sensitization: Not available.

Skin Sensitization: Not expected to cause skin sensitization.

Germ Cell Mutagenicity: No data available to indicate product is mutagenic or genotoxic.

Reproductive Toxicity: Not expected to cause reproductive toxicity.

Specific Target Organ Toxicity, Single exposure: Not classified

Specific Target Organ Toxicity, repeated exposure: Not classified.

Aspiration Hazard: Not available.

Chronic Effects: prolonged inhalation may be harmful.

Section 12. Ecological Information

Ecotoxicity: Harmful to aquatic life with long lasting effects.

<u>Chemical</u>	<u>Algae/Aquatic Plants</u>	<u>Fish</u>	<u>Microorganisms</u>	<u>Crustacea</u>
Sodium Hydroxide	N/A	125 mg/l 96 hr.	N/A	34.59-47.13 mg/l 48 hr
Potassium Hydroxide	N/A	80mg/l, 96 hrs	N/A	N/A
Disodium Trioxosilicate	N/A	2320ppm	N/A	N/A

Persistence & Degradability: No data available.

Bioaccumulation: No data available.

Mobility in Soil: No data available.

Other adverse Effects: No other adverse effects expected.

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Section 13. Disposal Considerations

Disposal Instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local/regional/national/international regulations. Hazardous waste Code: Waste code should be assigned by discussion between the user, the producer and the waste disposal company.

Waste from Residues/Unused Products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since empty containers may contain product residue, follow all label warnings even after container is emptied.

Section 14. Transport Information

<i>Regulatory Information</i>	<i>UN Number</i>	<i>Proper Shipping Name</i>	<i>Classes</i>	<i>PG*</i>	<i>Label</i>
DOT Classification	NA 1760	Liq. cleaning compound	8	III	8
IMDG Class	NA 1760	Liq. Cleaning Compound	8	III	8

Reportable quantity for Sodium Hydroxide is 1,000 pounds.

NOTE: DOT Classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill Of Lading with your shipment.

PG*: Packing Group

Section 15. Regulatory Information**U.S. Federal Regulations:**

SARA 313 toxic chemical notification and release reporting:

Not regulated.

CERCLA

Clean Water Act (CWA) 307: Sodium Hydroxide (cas 1310-73-2), Potassium Hydroxide (cas 1310-58-3)

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 Regulated Toxic Substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

TSCA 8(a) IUR: Not regulated.

United States Inventory (TSCA 8b): Not regulated.

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US State Right to Know Regulations: Sodium Hydroxide, Potassium Hydroxide, Disodium Trioxosilicate

State Regulations

California Prop 65: No products were found.

Section 16. Other Information

NFPA: 3,0,1

HMIS: 3,0,1

Issue Date: 4/20/16

Revision Date: N/A

Revision Note: N/A

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 or completeness of the information contained herein.

Final determination of the 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 these are the only hazards that exist.

**Note: Hazard Determination System (HDS) ratings are on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDS's under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*