







SECTION 1 - IDENTIFICATION

Manufacturer: Black Swan Mfg. Co. 4540 W. Thomas St. Chicago, IL 60651-3318 Tel.: 800-252-5796 Fax: 773-227-3705 Web Site : www.blackswanmfg.com E-mail : info@blackswanmfg.com	For any Transportation or Medical Chemical Emergencies call: <p style="text-align: center;">INFOTRAC</p> <p style="text-align: center;">(800) 535-5053 OR (352) 323-3500</p> <p style="text-align: center;">24 hours per day - 7 days a week</p>
Product Name: Power Flakes	Recommended Use: For cleaning clogged or sluggish drains.

SECTION 2 – HAZARD(S) IDENTIFICATION

<p>Labels</p>  <p>Corrosive</p> <p>Signal Word Danger</p> <p>HMIS</p> <table border="1" style="width: 100%;"> <tr><td>HEALTH</td><td style="text-align: right;">3</td></tr> <tr><td>FLAMMABILITY</td><td style="text-align: right;">0</td></tr> <tr><td>REACTIVITY</td><td style="text-align: right;">2</td></tr> </table>	HEALTH	3	FLAMMABILITY	0	REACTIVITY	2	<p style="text-align: center;">NFPA</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> HEALTH HAZARD 4 – Deadly 3 – Extreme Danger 2 – Hazardous 1 – Slight Hazardous 0 – Normal Material </td> <td style="text-align: center; vertical-align: middle;">  </td> <td style="vertical-align: top;"> FIRE HAZARD Flash Points 4 – Below 73°F 3 – Below 100°F 2 – Above 100°F, Not exceeding 200°F 1 – Above 200°F 0 – Will not burn </td> </tr> <tr> <td style="vertical-align: top;"> SPECIFIC HAZARD Oxidizer OX Acid ACID Alkali ALK Corrosive COR Use NO WATER Radioactive </td> <td style="vertical-align: top;"> REACTIVITY 4 – May detonate 3 – Shock and heat may detonate 2 – Violent chemical change 1 – Unstable if heated 0 – Stable </td> <td></td> </tr> </table>	HEALTH HAZARD 4 – Deadly 3 – Extreme Danger 2 – Hazardous 1 – Slight Hazardous 0 – Normal Material		FIRE HAZARD Flash Points 4 – Below 73°F 3 – Below 100°F 2 – Above 100°F, Not exceeding 200°F 1 – Above 200°F 0 – Will not burn	SPECIFIC HAZARD Oxidizer OX Acid ACID Alkali ALK Corrosive COR Use NO WATER Radioactive	REACTIVITY 4 – May detonate 3 – Shock and heat may detonate 2 – Violent chemical change 1 – Unstable if heated 0 – Stable		<p style="text-align: center;">GHS Classification</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <p style="text-align: center;">Health</p> Acute Toxicity: Cat. 4 Skin Irritation: Cat. 1A Eye Irritation: Cat.2A Skin Sensitization: NO </td> <td style="vertical-align: top;"> <p style="text-align: center;">Environmental</p> Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established </td> </tr> <tr> <td colspan="2" style="text-align: center;"> <p>Physical None</p> </td> </tr> </table>	<p style="text-align: center;">Health</p> Acute Toxicity: Cat. 4 Skin Irritation: Cat. 1A Eye Irritation: Cat.2A Skin Sensitization: NO	<p style="text-align: center;">Environmental</p> Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established	<p>Physical None</p>	
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<p style="text-align: center;">Hazardous Statements</p> <p>H302: Harmful if swallowed H314: Causes severe skin burns and eye damage</p>	<p style="text-align: center;">Precautionary Statements</p> <p>P102: Keep out of reach of children P234: Keep only in original container P260: Do not breathe dust/fumes/gas/mist/vapour/spray P262: Do not get in eyes, on skin, or on clothing P264: Wash thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face protection</p>																	

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemicals</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>REACH</u> <u>Pre-registration Number</u>	<u>Approx %</u>
SODIUM HYDROXIDE	1310-73-2	N/A	N/A	97-99%

*Unlisted ingredients are not classified as hazardous according to OSHA 1910.1200.

SECTION 4 – FIRST-AID MEASURES

<p>Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician immediately.</p> <p>Skin: Remove immediately all contaminated clothing and shoes. Wash before reuse. Wash skin thoroughly with soap and water. Get medical attention.</p> <p>Eyes: Flush with water for 15 minutes. Remove any contact lenses if present and easy to do so, continue rinsing. If irritation persists, get medical attention.</p> <p>Ingestion: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Contact a physician immediately.</p>
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SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: Substance will react with water (some violently), releasing corrosive and/or toxic gases.
Combustion Products: None known.
Extinguishing Media: Dry Chemical.
Unsuitable Extinguishing Media: None known.
Protective Equipment: Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.
Special Fire Fighting Procedures: In the event of fire and/or explosion, do NOT breathe fumes. Evacuate enclosed areas, stay upwind. Closed or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from sources of ignition and to disperse vapors.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: None.
Protective Equipment: None.
Emergency Procedures: Remove all sources of ignition and ventilate area. For leaks, stop leak if it can be done safely. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported.
Methods for Cleaning Up: Absorb spillage to prevent material damage. Shovel dry material into suitable container.

SECTION 7 – HANDLING AND STORAGE

Handling

Avoid contact with eyes, skin and clothing. Avoid prolonged breathing of vapor and mist. Use with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep containers closed when not in use.

Storage

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container closed when not in use. **Incompatible Materials:** Aluminum, Tin, Lead, Zinc, and other alloys and all acids.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Hazardous Chemicals</u>	<u>Exposure Limits</u>		
<u>SODIUM HYDROXIDE</u>	<u>ACGIH-TLV</u>	<u>ACGIH-STEL</u>	<u>OSHA-PEL</u>
	2mg/m ³	N/A	2mg/m ³

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact. Use local exhaust as needed. Regular cleaning of equipment, work area and clothing.

Ventilation: Local ventilation is adequate.

Personal Protective Equipment – Respiratory: Use NIOSH approved respirators to prevent overexposure.

Personal Protective Equipment – Skin: Impervious gloves and clothing. Avoid contact with skin, eye and clothing.

Personal Protective Equipment – Eyes: Tightly fitting safety goggles or face shield.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: White	Flash Point: Not Established	Vapor Pressure: Not Established
Odor: Odorless	Specific Gravity: 2.1	Flammability: Not Established
pH: 13	Solubility (H₂O): Soluble	Flammability Limits: LEL – Not Established
Melting Point: Not Established	Evaporation Rate: Not Established	UEL – Not Established
Freezing Point: Not Established	Vapor Density: Not Established	
Boiling Point: 2534°F	VOC: 0 g/l	

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SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid contact with water. Direct contact with water may cause an exothermic reaction. Carbon Monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

Incompatible materials: Acids, halogenated compounds, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkaline sensitive metals or alloys.

Hazardous decomposition products: None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Hazardous Chemicals</u>	<u>Toxicity</u>	
	<u>LD₅₀</u>	<u>LC₅₀</u>
SODIUM HYDROXIDE	Oral: 140 mg/kg (rat); Dermal: 1,350 mg/kg (rabbit)	N/A

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact and Ingestion.

Symptoms and Effect - Inhalation: May cause burns to the respiratory tract. May cause pulmonary edema.

Skin Contact: May cause burns. May cause permanent eye damage. May cause blindness.

Eye Contact: May cause burns.

Ingestion: May cause burns to the gastrointestinal tract. May cause nausea and vomiting.

Long-Term Effect: May cause visual disturbance. May cause dermatitis.

Pre-Existing Conditions: None known.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None known.

Persistence & Degradability: None known.

Bioaccumulative Potential: None known.

Mobility in soil: In normal use, emission of Volatile Organic Compounds (VOC's) to the air takes place, typically at a rate of ≤ 0 g/l.

SECTION 13 – DISPOSAL CONSIDERATION

Dispose of product or container in accordance with federal, state or local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Shipping Information

Shipping Name: Sodium Hydroxide Solid
Hazardous Class: 8
I.D. Number: UN1823
Packing Group: II
Label Required: Corrosive
Marine Pollutant: No

Exception to the rule: If the package that contains the hazardous material is in a small consumer size (Less than 1L), then the rules that apply to shipping hazardous materials do not apply. This is called an "Exception".

This is classified as Limited Quantity.

SECTION 15 – REGULATORY INFORMATION

Precautionary Label Information: Toxic and Corrosive.

Risk Phrases: **R36/37**-Irritant to eyes and respiratory system. **R66**-Repeated exposure may cause skin dryness or cracking.

Safety Phrases: **S2**-Keep out of reach of children. **S9**-Keep container in a well-ventilated place. **S25**-Avoid contact with eyes. **S26**-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 16 – OTHER INFORMATION

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Black Swan Mfg. Co. urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on the sheets.

DATE: 01/01/2021