



SECTION 1 - IDENTIFICATION

Manufacturer: Black Swan Mfg. Co. 4540 W. Thomas St. Chicago, IL 60651-3318... For any Transportation or Medical Chemical Emergencies call: INFOTRAC (800) 535-5053 OR (352) 323-3500... Product Name: Power Crystals Recommended Use: For cleaning clogged or sluggish drains.

SECTION 2 - HAZARD(S) IDENTIFICATION

Labels: Corrosive Signal Word: Danger HMIS: HEALTH 3, FLAMMABILITY 0, REACTIVITY 1 NFPA: HEALTH HAZARD 3, FIRE HAZARD 0, REACTIVITY 1 GHS Classification: Health: Oral-Cat.3/Dermal-Cat.4, Environmental: Acute Aquatic Toxicity: Not Established... Hazardous Statements: H302: Harmful if swallowed... Precautionary Statements: P102: Keep out of reach of children...

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Table with 5 columns: Chemicals, CAS#, EINECS#, REACH Pre-registration Number, Approx %. Rows include SODIUM HYDROXIDE, SODIUM NITRATE, ALUMINUM GRANULES.

SECTION 4 - FIRST-AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician immediately. Skin: Remove immediately all contaminated clothing and shoes. Wash before reuse. Wash skin thoroughly with soap and water. Get medical attention. Eyes: Flush with water for 15 minutes. Remove any contact lenses if present and easy to do so, continue rinsing. Ingestion: Rinse mouth. Do NOT induce vomiting.

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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: Do not get water inside containers. Prevent contact with skin or eyes. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high.
Protective Equipment: Wear suitable respiratory protective equipment.
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.
Methods for Cleaning Up: Prevent further leakage or spillage if safe to do so. Prevent dust cloud. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surfaces thoroughly.

SECTION 7 – HANDLING AND STORAGE

<u>Handling</u>	<u>Storage</u>
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.	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>ACGIH-TLV</u>	<u>ACGIH-STEL</u>	<u>OSHA-PEL</u>
SODIUM HYDROXIDE	2mg/m ³	N/A	2mg/m ³
SODIUM NITRATE	N/A	N/A	N/A
ALUMINUM GRANULES	N/A	N/A	N/A

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact. Use local exhaust as needed.
Ventilation: Local ventilation is adequate. Use only explosion proof ventilation equipment.
Personal Protective Equipment – Respiratory: Atmospheric levels should be maintained below established exposure limits. If airborne concentrations exceed those limits, use of a NIOSH approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.
Personal Protective Equipment – Skin: Prevent contact with skin. Impervious gloves. Impervious clothing.
Personal Protective Equipment – Eyes: Tightly fitted safety goggles or Face shield.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: White with gray-metal granules	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: Exposure to air or moisture over prolonged periods. Avoid dust formation.

Incompatible materials: Aluminum, Tin, Lead, Zinc, and other alloys and all acids.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors. Reaction with various food sugars may form Carbon Dioxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

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

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

Symptoms and Effect - Inhalation: Inhalation of corrosive fumes/gases may cause coughing, choking, headaches, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increase heart rate. Aspiration into lungs can produce severe lung damage.

Skin Contact: Corrosive. Causes burns.

Eye Contact: Corrosive. Causes burns. May cause severe damage including blindness.

Ingestion: Corrosive. Harmful if swallowed. Ingestion can cause burns of the upper digestive and respiratory tract. Can burn mouth, throat, and stomach.

Long-Term Effect: Repeated or prolonged skin contact would be expected to cause drying, cracking, and inflammation of the skin (dermatitis) and possible inflammation of the respiratory tract.

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