



BLACK SWAN MFG. CO.

GHS SAFETY DATA SHEET



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:

INFOTRAC

(800) 535-5053 **OR** (352) 323-3500

24 hours per day - 7 days a week

Product Name: Dynamic Duo

This product package contains Heavy Duty Liquid Drain Pipe Opener and Power Crystals. Please see both GHS sheets below.



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Product Name: Heavy Duty Liquid Drain Pipe Opener	Recommended Use: For cleaning clogged or sluggish drains. Restriction of use: Do not mix or add any substance to this product.

SECTION 2 – HAZARD(S) IDENTIFICATION

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<div><div><div><div><div>Signal Word</div><div>Danger</div></div><div><div><div>HMIS</div><div><div><div>HEALTH</div><div>3</div></div><div><div>FLAMMABILITY</div><div>0</div></div><div><div>REACTIVITY</div><div>1</div></div></div></div></div></div></div></div>	<div><div><div><div><div>Hazardous Statements</div><div>H302: Harmful if swallowed H314: Causes severe skin burns and eye damage</div></div></div></div></div>	<div><div><div><div><div>Precautionary Statements</div><div>P102: Keep out of reach of children P103: Read label before use 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</div></div></div></div></div>

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemicals	CAS#	EINECS#	REACH Pre-registration Number	Approx %
POTASSIUM HYDROXIDE	1310-58-3	215-181-3	N/A	20-30%
SODIUM HYDROXIDE	1310-72-2	215-185-5	N/A	20-30%

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

SECTION 4 – FIRST-AID MEASURES

Inhalation: Remove victim into fresh air. Call a physician. Skin: Flood with water for 15 minutes then wash with vinegar. Eyes: Flush with water for 15 minutes. If irritation persists, get medical attention. . Ingestion: Drink large quantities of water. Follow with citrus fruit juice, if available. Do not induce vomiting unless directed to do so by medical personnel.
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SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: Sodium Hydroxide will react with metals such as Aluminum, tin, and zinc to generate flammable and explosive hydrogen gas.

Combustion Products: None known.

Extinguishing Media: Dry Chemical, Carbon Dioxide, Water Spray

Unsuitable Extinguishing Media: None known.

Protective Equipment: Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.

Special Fire Fighting Procedures: Avoid contact of Sodium Hydroxide with water, as this can produce a violent exothermic reaction. Contact with reactive metals may result in the generation of flammable gas. 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: 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: If possible, dike spill and mop or pump into plastic or lacquer lined drums; label “Corrosive” and store away from heat and direct sunlight. Residual may be neutralized with citric acid.

SECTION 7 – HANDLING AND STORAGE

Handling

Use entire contents of container, rinse thoroughly and then dispose of container in accordance with the local state or federal regulations.

Storage

Store at room temperature. Keep container closed when not in use.
Incompatible Materials: Acids, metals, explosives, organic compounds and flammable materials. Do not store in containers made from tin, aluminum, zinc and alloys containing these materials.

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>
POTASSIUM HYDROXIDE	2mg/m ³	N/A	N/A
SODIUM HYDROXIDE	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.

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. Neoprene/Chemical resistant gloves. Chemical suit, rubber boots.

Personal Protective Equipment – Eyes: Chemical safety goggles and/or face shield.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear Liquid	Flash Point:	Not Established	Vapor Pressure:	1.5 mm Hg @ 20°C
Odor:	Odorless	Specific Gravity:	1.44	Flammability:	Not Established
pH:	14.0 (Aqueous solution: 5%)	Solubility (H2O):	Complete	Flammability Limits: LEL – Not Established UEL – Not Established	
Melting Point:	Not Established	Evaporation Rate:	Not Established		
Freezing Point:	Not Established	Vapor Density:	Not Established		
Boiling Point:	265°F	VOC:	0 g/l		

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SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Mixing with water, acid, or incompatible materials can cause splattering and release of large amounts of heat.

Incompatible materials: Acids, aluminum, tin, zinc, and alloys containing these: metals, iron, copper, wool, leather, clothing materials, organic chemicals such as nitrocarbons, and halogenated hydrocarbons, carbohydrates, phosphorous, explosives and organic peroxides.

Hazardous decomposition products: Potassium and Sodium Oxides form under fire conditions. Carbon Monoxide with Carbohydrates, Hydrogen with Aluminum, Tin and Zinc.

SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Hazardous Chemicals</u>	<u>Toxicity</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
POTASSIUM HYDROXIDE	Oral: 365 mg/kg (rat)		N/A
SODIUM HYDROXIDE	Oral: 500 mg/kg (rabbit)		N/A

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

Symptoms and Effect - Inhalation: Causes respiratory irritation which may develop into serious lung injury depending upon the degree of exposure.

Skin Contact: Corrosive. Can cause severe skin burns. Irritation may not be immediately painful. Greater exposure results in severe burns with scarring.

Eye Contact: Corrosive. Can cause serious eye burns. Contact results in immediate pain and can cause permanent eye damage including blindness.

Ingestion: Corrosive. Contact will cause severe burns of the 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: Mosquito fish: LC50=125mg/L 37 wt. % solution of Sodium Hydroxide.

Persistence & Degradability: Yes.

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 Solution
Hazardous Class: 8
I.D. Number: UN1824
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, 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

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For any Transportation or Medical Chemical Emergencies call:

INFOTRAC

(800) 535-5053 **OR** (352) 323-3500

24 hours per day - 7 days a week

Product Name: Power Crystals

Recommended Use: For cleaning clogged or sluggish drains.

SECTION 2 – HAZARD(S) IDENTIFICATION**Labels**

Corrosive

Signal Word

Danger

HMIS

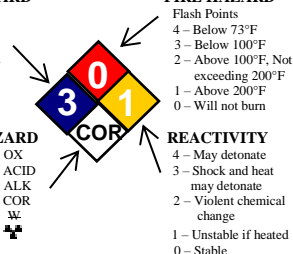
HEALTH	3
FLAMMABILITY	0
REACTIVITY	1

NFPA**HEALTH HAZARD**

4 – Deadly
3 – Extreme Danger
2 – Hazardous
1 – Slight Hazardous
0 – Normal Material

SPECIFIC HAZARD

Oxidizer OX
Acid ACID
Alkali ALK
Corrosive COR
Use NO WATER
Radioactive

**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

REACTIVITY

4 – May detonate
3 – Shock and heat may detonate
2 – Violent chemical change
1 – Unstable if heated
0 – Stable

GHS Classification**Health**

Acute Toxicity: Oral-Cat.3/Dermal-Cat.4

Skin Irritation: Cat.1B

Eye Irritation: Cat.1

Skin Sensitization: NO

Environmental

Acute Aquatic Toxicity: Not Established

Chronic Aquatic Toxicity: Not Established

Physical

None

Hazardous Statements

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

Precautionary Statements

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

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemicals	CAS#	EINECS#	REACH Pre-registration Number	Approx %
SODIUM HYDROXIDE	1310-73-2	N/A	N/A	50-60%
SODIUM NITRATE	7361-99-4	231-554-3	N/A	15-30%
ALUMINUM GRANULES	7429-90-5	N/A	N/A	1-5%

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

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. If irritation persists, get medical attention.

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.

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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

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>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	<u>Toxicity</u>	
	<u>LD₅₀</u>	<u>LC₅₀</u>
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.

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