BLACK SWAN MFG. CO. 352039

GHS SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Manufacturer:
Black Swan Mfg. Co.
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Chicago, IL 60651-3318
Tel.: 800-252-5796
Fax: 773-227-3705
Web Site : www.blackswanmfg.com
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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: Zap Drain Pipe Opener

Recommended Use: For dissolving organic matter, melting heavy grease deposits, and opening clogged drains.

SECTION 2 – HAZARD(S) IDENTIFICATION

Labels

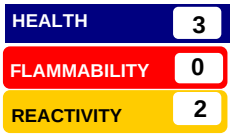
Corrosive Toxic Health Hazard

Oxidizer Environmental Hazard

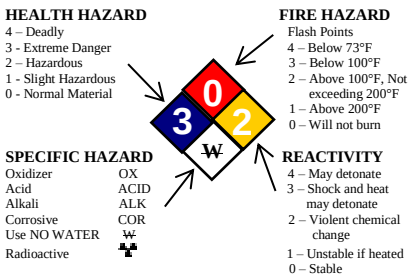
Signal Word

Danger

HMIS



NFPA



GHS Classification

Health

Acute Toxicity: Cat.5
Skin Irritation: Cat.1 A
Eye Irritation: Cat. 1
Skin Sensitization: NO

Environmental

Acute Aquatic Toxicity: Not Established
Chronic Aquatic Toxicity: Not Established

Physical

Corrosive: Cat. 1

Hazardous Statements

H271: May cause fire or explosion; strong oxidizer
H290: May be corrosive to metals
H301: Toxic if swallowed
H312: Harmful in contact with skin
H314: Causes severe skin burns and eye damage
H330: Fatal if inhaled
H370: Causes damage to respiratory tract through prolonged or repeated exposure
H413: Harmful to aquatic life with long lasting effects

Precautionary Statements

P102: Keep out of reach of children
P202: Do not handle until all safety precautions have been read and understood
P234: Keep only in original container
P260: Do not breathe dust/fumes/gas/mist/vapors/spray
P262: Do not get in eyes, on skin, or on clothing
P264: Wash thoroughly after handling
P280/P284: Wear protective gloves/protective clothing/eye protection/face protection. Wear a NIOSH approved respirator for organic solvents.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemicals	CAS#	EINECS#	REACH Pre-registration Number	Approx %
SULFURIC ACID	7664-93-9	231-639-5	N/A	93%

*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. If not breathing, give artificial respiration Get immediate medical attention.
Skin: Immediately flush with running water for at least 20 minutes. Remove contaminated clothing and shoes immediately. If irritation persists, repeat flushing. Completely decontaminate clothing and shoes before re-use. Get medical attention. Chemical burns must be treated by a physician.
Eyes: Flush immediately with water for at least 20 minutes. Remove contact lenses if present and easy to do so, continue rinsing. Forcibly hold eyelids apart to ensure complete irrigation of eyelid tissue. If irritation persists, repeat flushing. Get immediate medical attention.
Ingestion: Never give anything by mouth to an unconscious person. Give ½ to 1 glass of water to dilute material. If vomiting occurs spontaneously, keep airway clear and give more water. DO NOT INDUCE VOMITING. Get immediate medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: Not flammable but highly reactive. Capable of igniting finely divided combustible materials on contact. Hydrogen can accumulate to explosive concentrations inside confined spaces.
Combustion Products: None known.
Extinguishing Media: Small Fires-Dry Chemical, Carbon Dioxide. Large Fires-Water, expect violent reaction.
Unsuitable Extinguishing Media: Water, organic materials.
Protective Equipment: Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.
Special Fire Fighting Procedures: For fighting fires in close proximity to spill or vapors, use acid resistant personal protective equipment. Evacuate residents who are downwind of fire. Prevent unauthorized entry to fire area. Dike area to contain runoff and prevent contamination of water sources. Neutralize runoff with lime, soda ash or other suitable neutralizing agents. Cool containers that are exposed to flame with streams of water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Allow only trained personnel wearing appropriate protective equipment to be involved in the spill response.
Protective Equipment: Wear appropriate personal protective equipment.
Emergency Procedures: None.
Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways.
Methods for Cleaning Up: Remove all ignition sources. Ventilate area. Stop leak at source, if safe to do so. Collect into containers for reclamation or disposal. Deactivating chemicals: Lime, limestone, sodium carbonate, sodium bicarbonate, dilute sodium hydroxide, dilute aqua ammonia.

SECTION 7 – HANDLING AND STORAGE

Handling	**Storage**
Wear appropriate personal protective equipment. Do not breathe sprays or mists. Do not ingest. Do not get in eyes, on skin or on clothing. **Always add acid to water – NOT water to acid.**	Keep ignition sources away from sulfuric acid storage, handling and transportation equipment. Store above freezing point (-21.1°F @93%). Elevated temperatures will increase the corrosion rate of most metals. Store locked up. Store packaged acids in a dry, well ventilated location away from combustibles, oxidizers, bases or metallic powders. **Incompatible Materials:** Carbides, Chlorates, Fulminates, Nitrates and Picrates. (May cause fire and explosion). Contact with metals may produce flammable hydrogen gas. Do NOT add water to the acid.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

	Exposure Limits		
Hazardous Chemicals	**ACGIH-TLV**	**ACGIH-STEL**	**OSHA-PEL**
SULFURIC ACID	1 mg/m^3	N/A	1mg/m^3

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact in all storage and handling areas. Do not wear contact lenses.
Ventilation: Local ventilation is adequate.
Personal Protective Equipment – Respiratory: Use NIOSH approved respirators to prevent overexposure.
Personal Protective Equipment – Skin: Neoprene PVC gloves, coveralls, boots, and other acid resistant protective clothing.
Personal Protective Equipment – Eyes: Chemical safety goggles.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Brown	**Flash Point**:	Not Established	**Vapor Pressure**:	0.0016 @102°F
Odor:	Penetrating Odor	**Specific Gravity**:	1.8354 @60°F	**Flammability**:	Not Established
pH:	<1.00	**Solubility (H2O):**	Miscible	**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:	535°F	**VOC**:	0 g/l		

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.
Hazardous polymerization: Will not occur.
Conditions to avoid: Open flames, sparks, and ignition sources. Do NOT add water to acid.
Incompatible materials: Carbides, Chlorates, Fulminates, Nitrates and Picrates. (May cause fire and explosion). Contact with metals may produce flammable hydrogen gas. Do NOT add water to the acid.
Hazardous decomposition products: Toxic gases and vapors (Sulfur dioxide, sulfuric acid vapors and sulfuric trioxide) may be released when sulfuric acid decomposes.

SECTION 11 – TOXICOLOGICAL INFORMATION

	Toxicity	
Hazardous Chemicals	**LD_{50}**	**LC_{50}**
SULFURIC ACID	Oral: 2,140 mg/kg (rat)	Inhalation: 510 mg/m^3 (rat)

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact and Ingestion.
Symptoms and Effect - Inhalation: Vapor or mist from concentrated solutions may cause irritation of the eyes, nose and respiratory tract. May cause increased pulmonary resistance, transient cough and bronchoconstriction. Severe exposure may result in lung collapse and pulmonary edema which can be fatal.
Skin Contact: Concentrated solution may cause pain and severe burns to the skin and brownish or yellow stains. Prolonged exposure and repeated exposure to the dilute solutions may cause irritation, redness, pain, drying and cracking of the skin.
Eye Contact: Immediate pain, severe burns and corneal damage which may result in blindness.
Ingestion: Severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.
Long-Term Effect: None known**.**
Medical conditions aggravated by exposure: Asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat condition. Cream or ointment should not be applied before or during the washing phase of treatment.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None known.
Aquatic Toxicity: Fresh water fish (Brachydanio rerio): 24hrs LC50: 82 mg/L. Fresh water fish (Cyprinus carpio): 96hrs LOEC: 22 mg/L. Fresh water shrimp: 48hrs LC50: 80-90 mg/L. Salt water prawn: 48hrs LC50: 42.5 ppm. Flounder: 48hrs LC50: 110-330 mg/L.
Persistance & 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.

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SECTION 14 – TRANSPORTATION INFORMATION

Shipping Information

Shipping Name: Sulfuric Acid
Hazardous Class: 8
I.D. Number: UN1830
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: Health Hazard, Corrosive, Toxic.
Risk Phrases: R22-Harmful if swallowed. **R35-**Causes severe burns.
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**