



BLACK SWAN MFG. CO.





MATERIAL SAFETY DATA SHEET



SECTION 1 - IDENTIFICATION

Manufacturer: Black Swan Manufacturing Co. 4540 W. Thomas Street Chicago, IL 60651-3318 Telephone: 1-800-252-5796 Fax: 1-773-227-3705 Web Site: www.blackswanmfg.com E-mail: info@blackswanmfg.com	For any transportation or medical chemical emergencies call: INFOTRAC (800) 535-5053 <u>OR</u> (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

Label  Poison  Corrosive  Harmful  Irritant	NFPA HEALTH HAZARD 4 Deadly 3 Extreme Danger 2 Hazardous 1 Slightly Hazardous 0 Normal Material SPECIFIC HAZARD Oxidizer OX Use NO WATER W Simple Asphyxiant SA FIRE HAZARD Flash Points 4 Below 73°F (Boiling pt. below 100°F) 3 Below 73°F (Boiling pt. at/above 100°F) and/or at/above 73°F - not exceeding 100°F 2 Above 100°F, Not exceeding 200°F 1 Above 200°F 0 Will not burn INSTABILITY 4 May detonate 3 Shock and heat may detonate 2 Violent chemical changes 1 Unstable if heated 0 Stable	HMIS <table><tr><td>HEALTH</td><td>3</td><td>0 Minimal Hazard</td></tr><tr><td>FLAMMABILITY</td><td>0</td><td>1 Slight Hazard</td></tr><tr><td>REACTIVITY</td><td>2</td><td>2 Moderate Hazard</td></tr><tr><td></td><td></td><td>3 Serious Hazard</td></tr><tr><td></td><td></td><td>4 Severe Hazard</td></tr></table> PPE H	HEALTH	3	0 Minimal Hazard	FLAMMABILITY	0	1 Slight Hazard	REACTIVITY	2	2 Moderate Hazard			3 Serious Hazard			4 Severe Hazard
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Health Acute Toxicity: Cat. 5 Skin Corrosion: Cat. 1 Eye Irritation: Cat. 2B Skin Sensitization: NO	Environmental Acute Toxicity: N/A Chronic Toxicity: N/A	Physical Flammability: N/A Other: N/A															
Hazardous Statement May be Harmful or Fatal if swallowed. Poison! Corrosive! Causes severe burns. Reacts violently with water.	Precautionary Statement Avoid contact with skin and eyes. Keep out of reach of children. Do not allow to be taken internally. Use only in a well ventilated are. Avoid breathing vapors.																

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Chemicals	CAS #	EINECS#	Approx %
SULFURIC ACID	7664-93-9	231-639-5	93%
*Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirement of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.			

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SECTION 4 - FIRST-AID MEASURES

Inhalation: Remove victim to fresh air. Give artificial respiration only if breathing has stopped. Give cardiopulmonary resuscitation if there is no breathing and no pulse. Get immediate medical attention.

Skin: Immediately flush with running water for at least 20 minutes. Under running water, remove contaminated clothing and shoes. If irritation persists, repeat flushing. Get medical attention. Completely decontaminated clothing and shoes before re-use.

Eyes: Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye/lid tissue. If irritation persists, repeat flushing. Get immediate medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Give 1/2 to 1 glass of water to dilute material. If vomiting occurs spontaneously, keep airway clear and give more water. Get immediately medical attention.

SECTION 5 - FIRE-FIGHTING MEASURES

<u>Extinguishing Media</u>		<u>Specific Hazards</u>	<u>Protective Equipment</u>
<u>Suitable</u> Small Fire: Dry Chemical Carbon Dioxide Large Fire: Water; expect violent reaction.	<u>Unsuitable</u> Water Organic Materials	Not flammable but highly reactive. Capable of igniting finely divided combustible materials on contact. Hydrogen can accumulate to explosive concentrations inside confined spaces.	Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.
<u>Special Firefighting Procedures</u> 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: None.

Emergency Procedures: None.

Environmental Precautions: Dike area, prevent material from entering waterway.

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.

Other Precautions: None.

SECTION 7 - HANDLING AND STORAGE

<u>Handling</u>	<u>Storage</u>
Wear appropriate personal protective equipment. Do not breath 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 packaged acid in a dry, well ventilated location away from combustibles, oxidizers, bases or metallic powders. Storage tanks should be protected from water ingress, be well ventilated, and maintained structurally in a safe and reliable condition. Sulfuric acid will attack some forms of plastic and coating. If kept in upper floors of building, floors should be acid proof with drains to a recovery tank.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Components

SULFURIC ACID

OSHA Exposure Limits

ACGIH-TLV

1 mg/m3

OSHA-PEL

1 mg/m3

Personal Protective Equipment

Respiratory Protection: Use NIOSH approved respirators to prevent overexposure.

Ventilation: Local ventilation is adequate.

Other Protective Equipment:

Protective Gloves

Neoprene/PVC Gloves.

Eyes and Face Protection

Chemical Safety Goggles.

Other Protective Equipment

Coveralls, Boots and other acid resistant protective clothing.

Other Precautions: None.

Engineering Controls

Safety showers recommended in all storage and handling areas. Eye wash fountains recommended in all storage and handling areas. Do not wear contact lenses.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance: Brown

Odor: Penetrating Odor

Odor Threshold: N/A

pH: <1.00

Melting/Freezing Point: N/A / -21.2°F

Boiling Point: 535°F

Boiling Range: N/A

Flash Point: N/A

Evaporation Rate: N/A

Flammability: N/A

Flammability Limits: LEL: N/A ; UEL: N/A

Volatile by Volume:

N/A

Vapor Pressure:

@ 102°F , 0.0016

Vapor Density:

N/A

Relative Density:

N/A

Solubility:

Miscible

Partition Coefficient: n-octanol/water:

N/A

Auto-ignition Temperature:

N/A

Specific Gravity (H2O=1):

@ 60°F , 1.8354

Viscosity:

N/A

VOC:

0 g/l

SECTION 10 - STABILITY AND REACTIVITY

Stability

Stable Unstable



Hazardous Polymerization

May Occur Will Not Occur



Conditions To Avoid

Open flames, sparks, and ignition sources.
Do NOT add water to the acid.

Incompatible Materials

Carbides, Chlorates, Fulminates, Nitrates and Picrates.
(May cause fire and explosion).
Contacts 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 sulfur trioxide) may be released when sulfuric acid decomposes.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure		Symptoms/Effects
Inhalation	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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 and drying and cracking of the skin.
Eye Contact	<input checked="" type="checkbox"/>	Immediate pain, severe burns and corneal damage which may result in blindness.
Ingestion	<input checked="" type="checkbox"/>	Severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.
Long-Term Effects: N/A		
Medical conditions aggravated by exposure: Asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat condition. Severity of the burn is generally determined by the concentration of the solution and duration of exposure. Cream or ointment should not be applied before or during the washing phase of treatment.		
Hazardous Components		Toxicity
SULFURIC ACID		LD₅₀ Oral: 2,140 mg/Kg (rat)
		LC₅₀ Inhalation: 510 mg/m3 (rat)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	None.
Persistence & Degradability:	None.
Bioaccumulative Potential:	None.
Mobility in Soil:	None.
Other Adverse Effects:	None.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.
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SECTION 14 - TRANSPORTATION INFORMATION

Shipping Information		
Shipping Name:	Sulfuric Acid	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 Consumer Commodity ORM-D.
Hazardous Class:	8	
I.D. Number:	UN1830	
Packing Group:	II	
Label Required:	Corrosive	
Marine Pollutant:	No	

SECTION 15 - REGULATORY INFORMATION

None.

SECTION 16 - OTHER INFORMATION

Disclaimer:	Revision Date:	JULY 2010
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 Manufacturing 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.		