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 OR (352) 323-3500

24 hours per day - 7 days a week

Product Name:

One-Shot

Recommended Use:

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

SECTION 2 - HAZARD(S) IDENTIFICATION

Label

Poison

Corrosive

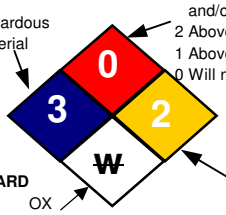
Harmful

Irritant

NFPA

HEALTH HAZARD
4 Deadly
3 Extreme Danger
2 Hazardous
1 Slightly Hazardous
0 Normal Material

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

SPECIFIC HAZARD
Oxidizer OX
Use NO WATER W
Simple Asphyxiant SA

HMIS

HEALTH	3
FLAMMABILITY	0
REACTIVITY	2
PPE	H

0 Minimal Hazard
1 Slight Hazard
2 Moderate Hazard
3 Serious Hazard
4 Severe Hazard

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%
2-CHLOROTOLUENE	95-49-8	202-424-3	<1%
4-CHLOROTOLUENE	106-43-4	203-397-0	<1%

*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

Extinguishing Media		Specific Hazards	Protective Equipment
Suitable	Unsuitable	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.
Small Fire: Dry Chemical Carbon Dioxide	Water Organic Materials		
Large Fire: Water; expect violent reaction.			

Special Firefighting 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: 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

Handling	Storage
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, oxiders, bases or metallic powders. Storage tanks should be protected from water ingress, be well ventilated, and maintained structually 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

OSHA Exposure Limits

Hazardous Components	ACGIH-TLV	OSHA-PEL
SULFURIC ACID	1 mg/m3	1 mg/m3
2-CHLOROTOLUENE	259 mg/m3	250 mg/m3
4-CHLOROTOLUENE	N/A	N/A

Personal Protective Equipment

Respiratory Protection: Use NIOSH approved respirators to prevent overexposure.

Ventilation: Local ventilation is adequate.

Other Protective Equipment:

Protective Gloves	Eyes and Face Protection	Other Protective Equipment
Neoprene/PVC Gloves.	Chemical Safety Goggles.	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	**Volatile by Volume:**	N/A
Odor:	Penetrating Odor	**Vapor Pressure:**	@ 102℉ , 0.0016
Odor Threshold:	N/A	**Vapor Density:**	N/A
pH:	<1.00	**Relative Density:**	N/A
Melting/Freezing Point:	N/A / -21.2℉	**Solubility:**	Miscible
Boiling Point:	535℉	**Partition Coefficient: n-octanol/water:**	N/A
Boiling Range:	N/A	**Auto-ignition Temperature:**	N/A
Flash Point:	N/A	**Specific Gravity (H20=1):**	@ 60℉ , 1.8354
Evaporation Rate:	N/A	**Viscosity:**	N/A
Flammability:	N/A	**VOC:**	50 g/l
Flammability Limits:	LEL: N/A ; UEL: N/A		

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	✔	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 and 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, diarreah 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.

	Toxicity	
Hazardous Components	**LD_{50}**	**LC_{50}**
SULFURIC ACID	Oral: 2,140 mg/kg (rat)	Inhalation: 510 mg/m3 (rat)
2-CHLOROTOLUENE	Oral: 2,350 mg/kg (rat)	Inhalation: 3,471 ppm (rat)
4-CHLOROTOLUENE	Oral: 3,600 mg/kg (rat)	Inhalation: 34 g/m3 (mouse)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None.
Persistance & 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.

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 Consumer Commodity ORM-D.

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.