



### Material Safety Data Sheet

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 sheet.

SECTION I - GENERAL INFORMATION																											
Black Swan Manufacturing Co. 4540 W. Thomas Street Chicago, IL 60651-3318 Telephone No: 1-773-227-3700 Fax No: 1-773-227-3705		For chemical emergencies during transportation only call INFOTRAC <b>1-800-535-5053</b> 24 hours per day - 7 days a week																									
<b>Date Prepared</b>  01/02/2010		<b>Trade Name</b>  SHIFT-IT																									
SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION																											
HAZARDOUS COMPONENTS OSHA-PEL	CAS#	APPROX%	ACGIH-TLV																								
SULFURIC ACID	7664-93-9	93	(TWA) 1 mg/m <sup>3</sup> (TWA) 1 mg/m <sup>3</sup>																								
Title III Section 313 Supplier Notification: this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency planning and community Right-to-Know Act of 1966 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.																											
SHIPPING INFORMATION		SPECIAL HAZARD DESIGNATIONS																									
<b>FOR CONTAINERS UNDER 1 LITER SIZE</b> CONSUMER COMMODITY ORM-D		<table border="1"> <thead> <tr> <th></th> <th>HMIS</th> <th>NFPA</th> <th>HAZARD RATING</th> </tr> </thead> <tbody> <tr> <td>HEALTH</td> <td>3</td> <td>3</td> <td>0- MINIMAL</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> <td>0</td> <td>1- SLIGHT</td> </tr> <tr> <td>REACTIVITY</td> <td>2</td> <td>2</td> <td>2- MODERATE</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT</td> <td>H</td> <td></td> <td>3- SERIOUS</td> </tr> <tr> <td></td> <td></td> <td></td> <td>4- SEVERE</td> </tr> </tbody> </table>			HMIS	NFPA	HAZARD RATING	HEALTH	3	3	0- MINIMAL	FLAMMABILITY	0	0	1- SLIGHT	REACTIVITY	2	2	2- MODERATE	PROTECTIVE EQUIPMENT	H		3- SERIOUS				4- SEVERE
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<b>FOR CONTAINERS ABOVE 1 LITER SIZE</b> SHIPPING NAME SULFURIC ACID HAZARD CLASS 8 I.D. NO UN1830 PACKING GROUP II FREIGHT CLASS 55 LABEL REQUIRED CORROSIVE																											
SECTION III - PHYSICAL DATA																											
APPEARANCE AMBER LIQUID	ODOR ACID ODOR	BOILING POINT 127.63° C (529.9° F)																									

SPECIFIC GRAVITY (H <sub>2</sub> O=1) 1.775	VAPOR PRESSURE (mm Hg.) 0.0016 mmHg	VOLATILE BY VOLUME (%) N/A
VAPOR DENSITY (AIR=1) 3.4	EVAPORATION RATE (BUAC=1) <1	SOLUBILITY IN WATER COMPLETE

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) N/A	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LEL N/A	UEL N/A
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##### FIRE EXTINGUISHING MEDIA

FOR SMALL FIRES USE DRY CHEMICALS OR CARBON DIOXIDE. FOR LARGE FIRES, FLOOD FIRE AREA WITH WATER FROM DISTANCE. EXPECT VIOLENT REACTION WITH WATER. DO NOT GET SOLID STREAM OF WATER ON SPILLED MATERIAL.

##### SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. COOL EXTERIOR OF STORAGE TANKS.

##### UNUSAL FIRE AND EXPLOSION HAZARD

VIOLENT REACTION WITH WATER. EVOLUTION OF EXPLOSIVE HYDROGEN GAS ON CONTACT WITH MOST METALS. WILL REACT WITH ORGANIC MATERIAL WITH EVOLUTION OF HEAT AND DENSE WHITE FUMES.

#### SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OR ENTRY     Inhalation     Skin contact     Eye contact  
 Ingestion

##### EFFECT OF OVEREXPOSURE

INHALATION: INHALATION OF CONCENTRATED VAPOR OR MIST MAY DAMAGE RESPIRATORY TRACT.

INGESTION: SWALLOWING MAY BE FATAL.

DIRECT CONTACT: CONTACT WITH LIQUID, MIST, OR VAPOR CAN CAUSE IMMEDIATE IRRITATION OR CORROSIVE BURNS TO ALL HUMAN TISSUE. SEVERITY OF THE BURN IS GENERALLY DETERMINED BY THE CONCENTRATION OF THE SOLUTION AND DURATION OF EXPOSURE.

EYE CONTACT: CONTACT WITH EYES MAY RESULT IN PERMANENT VISUAL LOSS UNLESS REMOVED QUICKLY BY THOROUGH IRRIGATION WITH WATER.

##### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

REPEATED SKIN CONTACT WITH DILUTE SOLUTIONS MAY CAUSE DERMATITIS. MAY CAUSE DENTAL EROSION

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH WITH WATER FOR 15 MINUTES AND GET PROMPT MEDICAL ATTENTION.

EXTERNAL: FLUSH WITH WATER FOR 15 MINUTES.

INTERNAL: DRINK LARGE QUANTITIES OF WATER OR MILK, FOLLOW WITH MILK OF MAGNESIA, BEATEN EGGS OR VEGETABLE OIL. CALL PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.

INHALATION: REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, PERFORM ARTIFICIAL RESPIRATION.

SECTION VI - REACTIVITY

STABILITY	UNSTABLE	CONDITIONS TO AVOID	
	STABLE	X	NONE

INCOMPATIBILITY (MATERIALS TO AVOID)

CONTACT WITH ORGANIC MATERIALS (SUCH AS CHLORATES, CARBIDES, FULMINATES AND PICRATES) MAY CAUSE FIRE AND EXPLOSIONS. CONTACT WITH METALS MAY PRODUCE FLAMMABLE HYDROGEN GAS. WHEN DILUTING, ADD ACID TO WATER.

**DO NOT ADD WATER TO ACID!!**

HAZARDOUS DECOMPOSITION PRODUCTS

TOXIC GASES AND VAPORS (E.G. SULFUR DIOXIDE, SULFURIC ACID VAPOR/MISTS AND SULFUR TRIOXIDE) MAY BE RELEASED WHEN SULFURIC ACID DECOMPOSES

HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID	
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

USE 10% SODA ASH WITH SAND TO SLURRY SPILLAGE MIX AND ADD WATER CONTINUOUSLY, SCOOP UP AND WASH DOWN DRAIN WITH EXCESS WATER.

WASTE DISPOSAL METHOD

USE ANY METHOD FOR THE DISPOSAL OF CHEMICAL WASTES SUBJECT TO LOCAL REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

IN INADEQUATE VENTILATED AREA USE SELF-CONTAINED BREATHING APPARATUS.

VENTILATION

MECHANICAL WINDOWS

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PROTECTIVE GLOVES

EYE PROTECTION

RUBBER

FACEC SHIELD OR SAFETY GLASSES

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OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES

PLASTIC COVERING FOR CLOTHING & SHOES.

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE IN COOL, DRY AREA. AVOID EXCESSIVE HEAT AND BELOW FREEZING TEMPERATURES.

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OTHER PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. DO NOT COMBINE WITH ALKALINE DRAIN CLEANERS

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**This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.**

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# Black Swan Quality Products

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## For The Plumbing Professional