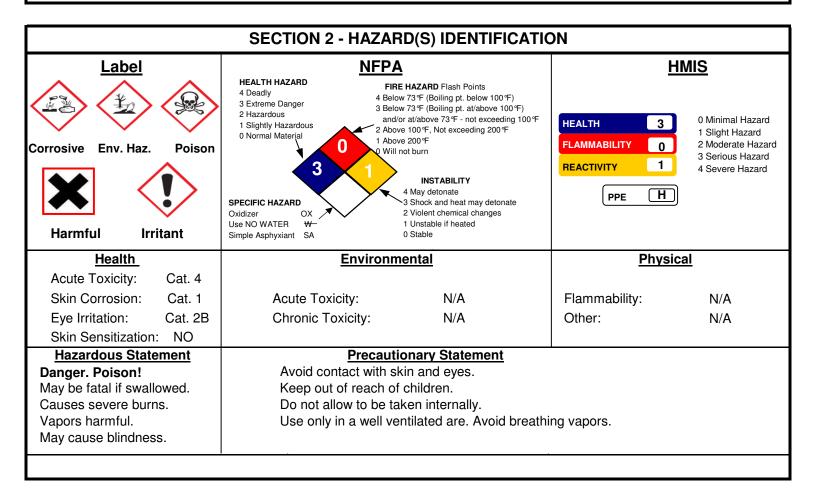


# **BLACK SWAN MFG. CO.**



# MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION		
Manufacturer:	For any transportation or medical chemical emergencies call:	
Black Swan Manufacturing Co. 4540 W. Thomas Street Chicago, IL 60651-3318	INFOTRAC	
Telephone: 1-800-252-5796 Fax: 1-773-227-3705	(800) 535-5053 <u>OR</u> (352) 323-3500	
Web Site: www.blackswanmfg.com E-mail: info@blackswanmfg.com	24 hours per day - 7 days a week	
Product Name:	Recommended Use:	
Dagger	For removal of lime, scale, concrete and rust from air conditioning equipment, refrigerator drains, etc.	



#### **SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

# Hazardous Chemicals

<u>CAS #</u> 7647-01-0

EINECS#

231-595-7

<u>Approx %</u> 35%

\*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.

# MATERIAL SAFETY DATA SHEET

### **SECTION 4 - FIRST-AID MEASURES**

Inhalation: Remove victim to fresh air. If breathing is difficult, oxygen may be beneficial, if administered by a person trained in its use, preferably on a physician's advise. Ensure victim is completely at rest. Do not allow any physical exertion. Symptoms may be delayed up to 48 hours after exposure. Get immediate medical attention.
 Skin:

Immediately flush with lukewarm, gently flowing water for at least 20-30 minutes. Under running water, remove contaminated clothing and shoes. Get immediate medical attention. Completely decontaminate clothing and shoes before re-use.

- **Eyes:** Flush immediately with lukewarm water for at least 20-30 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. If swallowed, do not induce vomiting. Give large quantities of water. If milk is available, it may be given after the water has been given. If vomiting occurs spontaneously, keep airway clear and give more water. Get immediate medical attention.

### **SECTION 5 - FIRE-FIGHTING MEASURES**

**Specific Hazards** 

Extinguishing Media		
Suitable	<u>Unsuitable</u>	
Water fog	Hydrogen chloride gas	
Foam	Hydrogen	
Dry Chemical		
Carbon Dioxide		

Contact with common metals may produce flammable, and potentially explosive hydrogen gas.

#### Protective Equipment

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

#### Special Firefighting Procedures

Firefighters and others who might be exposed to products of combustion should wear (NIOSH approved) positive pressure selfcontained breathing apparatus and full protective clothing. Neutralize with soda ash and slaked lime.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Protective Equipment:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. None.
Emergency Procedures:	None.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Methods for Cleaning-Up:	Evacuate area, keep upwind until gas has dispersed. If necessary to enter spill area, wear approved full face respirators with acid cartridges. Wear acid resistant clothing. Large Spills: Wear self contained breathing apparatus and full protective clothing including shoes. Build a dike around the spill. Neutralize with Lime or Soda Ash. Clean and dispose in accordance with Federal, State and Local regulations.
Other Precautions:	None.

SECTION 7 - HANDLING AND STORAGE		
Handling	Storage	
Do not get in eyes, on skin or on clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not mix with cyanides, sulfides or formaldehyde.	Store in original containers and away from heat. Keep containers closed when not in use. Store in a cool place. Keep away from heat, sparks and flames.	

# **MATERIAL SAFETY DATA SHEET**

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION				
		Exposure Limits		
Hazardous Cor	<u>nponents</u>	ACGIH-TLV	<u>OSHA-PEL</u>	
HYDROGEN CHLORIDE		5 ppm	5 ppm	
	Persona	al Protective Equipment		
Respiratory Protection:	Full face respirator with HCL fumes cartridges for response to small spills. Self contained breathing apparatus.			
Ventilation:	Local ventilation is adequate.			
Other Protective Equipme	<b>Protective Gloves</b> Rubber/Plastic Gloves.	Eyes and Face Protection Chemical Safety Goggles OR Safety Glasses/Faceshield.	Other Protective Equipment None.	
Other Precautions:	None.			
	Engine	eering Controls		
None.				

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES			
Appearance:	Light Yellow	Volatile by Volume:	N/A
Odor:	Pungent/Acid odor	Vapor Pressure:	35
Odor Threshold:	N/A	Vapor Density:	1.27
pH:	N/A	Relative Density:	N/A
Melting/Freezing Point:	N/A	Solubility:	Complete
Boiling Point:	181 ºF / -51 ºF	Partition Coefficient: n-octanol/water:	N/A
Boiling Range:	N/A	Auto-ignition Temperature:	N/A
Flash Point:	N/A	Specific Gravity (H20=1):	1.16
Evaporation Rate:	> 1.0	Viscosity:	N/A
Flammability:	N/A	VOC:	0 g/l
Flammability Limits:	LEL: N/A ; UEL: N/A		

SECTION 10 - STABILITY AND REACTIVITY			
Stable Unstable	Hazardous Polymerization May Occur Will Not Occur	n <u>Conditions To Avoid</u> Open flames, sparks, and ignition sources. Very corrosive to most metals. Avoid heating to decomposition.	
Incom	patible Materials	Hazardous Decomposition Products	
calcium nypochioride, pure oxygen, reducing agents, metals,		Carbon monoxide, oxides or sulfur and other decomposition products may form from incomplete combustion. Heat can cause evolution of gaseous hydrogen chloride.	

# MATERIAL SAFETY DATA SHEET

SECTION 11 - TOXICOLOGICAL INFORMATION			
Likely Rou	tes of Exposure	Symptoms/I	Effects
Inhalation	✓	Corrosive and irritating to respiratory tract. Res inflammation of the respiratory tract.	sults in coughing, choking and
Skin Contact	Skin Contact  Will cause severe burns unless washed off immediately. Repeated skin contact may lead to dermatitis.		
Eye Contact		Causes severe irritation and painful burns to the the eyes immediately with copious amounts and/or total loss of vision.	
Ingestion	✓	Corrosive to mouth and stomach. Do not ind	uce vomiting.
Long-Term Effects: Prolonged exposure to low level concentration of hydrochloric acid vapor may cause discoloration and erosion of teeth, bleeding of nose and gums, and ulcers of the nasal mucosa. It may aggravate asthma, bronchitis, emphysema, bronchial hyperactivity, skin allergies and eczema.			
<u>Toxicity</u>			
Hazardou	us Components	<u>LD50</u>	<u>LC50</u>
HYDROG	EN CHLORIDE	Oral: 900 mg/Kg (rabbit)	Inhalation: 5,666 ppm @ 30 min.

SECTION 12 - ECOLOGICAL INFORMATION		
Ecotoxicity:	This material is expected to be toxic to aquatic life.	
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:	Hydrochloric Acid, Solution	
Hazardous Class: 8		
I.D. Number:	UN1789	
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.