

BLACK SWAN MFG. CO.

GHS SAFETY DATA SHEET



SECTION 1 - IDENTIFICATION

Manufacturer:

Black Swan Mfg. Co. 4540 W. Thomas St. Chicago, IL 60651-3318 Tel.: 800-252-5796 Fax: 773-227-3705

Web Site: www.blackswanmfg.com E-mail: info@blackswanmfg.com

Product Name: Solu-Flux

Signal Word

Danger

HMIS

For any Transportation or Medical Chemical Emergencies call:

INFOTRAC

(800) 535-5053 **OR** (352) 323-3500

24 hours per day - 7 days a week

Recommended Use: To prepare copper tubing and fittings for

SECTION 2 – HAZARD(S) IDENTIFICATION

Labels Health Hazard

HEALTH

FLAMMABILITY

REACTIVITY



HEALTH HAZARD

4 – Deadly 3 - Extreme Danger 2 – Hazardous 1 - Slight Hazardous 0 - Normal Material

SPECIFIC HAZARD OX ACID ALK COR Oxidizer Acid Alkali Corrosive Use NO WATER

FIRE HAZARD

- Flash Points 4 Below 73°F
- 4 Below 73°F 3 Below 100°F 2 Above 100°F, Not exceeding 200°F 1 Above 200°F 0 Will not burn

REACTIVITY 4 - May detonate 3 - Shock and heat

may detonate 2 – Violent chemical change 1 – Unstable if heated 0 – Stable

GHS Classification

Health

Acute Toxicity:Not Established Skin Irritation: Not Established Cat. 2A Eye Irritation:

Skin Sensitization: Yes

Environmental

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

Physical

Flammability: Not Established

Hazardous Statements

H302/H332: Harmful if swallowed or inhaled H315/H320: Causes skin and eye irritation

0

H335: May cause respiratory irritation

Precautionary Statements

P102: Keep out of reach of children

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking

P262: Do not get in eyes, on skin, or on clothing

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Chemicals	CAS#	EINECS#	REACH	Approx %
			Pre-registration Number	
AMMONIUM CHLORIDE	12125-02-9	235-186-4	N/A	
GLYCERINE	56-81-5	200-289-5	N/A	
HYDROBROMIC ACID	10035-10-6	233-113-0	N/A	

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

SECTION 4 – FIRST-AID MEASURES

Inhalation: Move into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call physician. Skin: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If rash or burn appear consult a physician.

Eyes: Flush with water for 15 minutes. If irritation persists, get medical attention.

Ingestion: Call a physician at once or your Poison Control Center. Corrosive to mucous membranes.

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SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: Dense smoke may be generated.

Combustion Products: None known Extinguishing Media: Water, Foam, Fog Unsuitable Extinguishing Media: N/A

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

Special Fire Fighting Procedures: Evacuate enclosed areas, stay upwind. Closed or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks. Full protective equipment required. May release ammonia and HCI fumes. Toxic metal halide fumes may be produced. Use water spray to cool containers, to flush spills from sources of ignition and to disperse vapors.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prevent contact with skin or eyes. Do not breathe fumes.

Protective Equipment: Wear suitable respiratory protective equipment.

Emergency Procedures: Remove all sources of ignition and ventilate area. For leaks, stop leak if it can be done safely. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways.

Methods for Cleaning Up: Contain spill, absorb, sweep-up and dispose. Flush area to chemical sewer.

SECTION 7 – HANDLING AND STORAGE

Handling
Skip Avoid prolonged breathing of

Avoid contact with eyes and skin. Avoid prolonged breathing of vapor and mist. Use with adequate ventilation. Wash thoroughly after handling. Professionally wash contaminated clothing before re-use. Do not eat, drink or smoke in the work area. Keep products away from heat, sparks, flames and all other sources of ignition. Keep containers closed when not in use. If handling in large quantities wear rubber gloves and face shield.

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container closed when not in use. Keep away from heat, sparks, open flame and other sources of ignition. **Incompatible Materials**: Strong Nitric, Sulfuric Acids, Cyanide.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>E</u> :	xposure Limits	
ACGIH-TLV	ACGIH-STEL	OSHA-PEL
10 mg/M3	N/A	10 mg/M3
10 mg/M3	N/A	10 mg/M3
N/A	N/A	10 mg/M3
	ACGIH-TLV 10 mg/M3 10 mg/M3	10 mg/M3 N/A 10 mg/M3 N/A

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact. Use local exhaust as needed. **Ventilation**: Maintain airflow away from user to remove all fumes and vapors, so that the PEL is never exceeded. Adhere to environment regulations for exhaust.

Personal Protective Equipment – Respiratory: If the work station is not properly ventilated to exhaust all fumes and vapors, use a NIOSH approved mask.

Personal Protective Equipment – Skin: Chemical & acid impervious gloves. Full protective equipment used in a soldering operation to prevent any contact.

Personal Protective Equipment – Eyes: Chemically tight safety goggles.

Boiling Point:

Not Established

VOC:

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: Opaque White to Yellowish Flash Point: Not Established Vapor Pressure: Not Established Odor: None **Specific Gravity:** 1.014 - 1.33Flammability: Not Established LEL - Not Established pH: Not Established Solubility (H2O): Complete Flammability Limits: Melting Point: Not Established **Evaporation Rate:** <1 UEL - Not Established Not Established Freezing Point: Not Established Vapor Density:

49 g/l

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SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur

Conditions to avoid: None known

Incompatible materials: Strong Nitric, Sulfuric Acids, Cyanide

Hazardous decomposition products: Hydrogen Chloride, Hydrogen Bromide and Ammonia

SECTION 11 – TOXICOLOGICAL INFORMATION

	<u>Toxicity</u>	
Hazardous Chemicals	$\underline{ ext{LD}}_{50}$	$\underline{\text{LC}}_{50}$
AMMONIUM CHLORIDE	N/\overline{A}	N/\overline{A}
GLYCERINE	N/A	N/A
HYDROBROMIC ACID	N/A	N/A

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact and Ingestion

Symptoms and Effect - Inhalation: Irritation to respiratory system. Coughing and sneezing. **Skin Contact:** Dermatitis, possible chemical burns, irritating to skin. **Eye Contact:** Irritation to eyes, tearing, burning of eye surfaces, corrosive to eyes. MAY CAUSE BLINDNESS.

Ingestion: Can cause damage to digestive system. Corrosive to mucous membrane.

Long-Term Effect: Irritation to skin (scarring), eyes, and respiratory system. Possible liver and kidney effects.

Pre-Existing Conditions: Existing lung and skin disorders will be aggravated.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None known

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 49 g/l.

SECTION 13 – DISPOSAL CONSIDERATION

Dispose of product or container in accordance with federal, state or local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

D.O.T. (U.S.): Not Regulated.

SECTION 15 – REGULATORY INFORMATION

Precautionary Label Information: Irritant and Health Hazard

Risk Phrases: R22-Harmful if swallowed. R41-Risk of serious damage to eyes.

Safety Phrases: S2-Keep out of reach of children. S9-Keep container in a well-ventilated place. S16-Keep away from sources of ignition-No smoking. 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: 01/01/2014