



## SOLU-FLUX

### 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> 01/01/08		<b>Trade Name</b> <b>SOLU-FLUX</b>		
SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION				
HAZARDOUS COMPONENTS	CAS#	APPROX%	ACGIH-TLV	OSHA-PEL
AMMONIUM CHOLRIDE	12125-02-9		10 mg/m3	NONE
GLYCERINE	56-81-5		10 mg/m3	15 mg/m3
CYCLOHEXANONE	108-94-1	5-10	10 mg/m3	10 mg/m3
*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		
		<u>HMS</u>	<u>NFPA</u>	<u>HAZARD RATING</u>
HEALTH		1	1	0 - MINIMAL
FLAMMABILITY		0	0	1- SLIGHT

NOT HAZARDOUS FOR SHIPPING PURPOSES	REACTIVITY PROTECTIVE EQUIPMENT	0 B	0 --	2- MODERATE 3- SERIOUS 4- SEVERE
<b>SECTION III - PHYSICAL DATA</b>				
<b>APPEARANCE</b> OPAQUE WHITE TO YELLOWISH SEMI-SOLID PASTE.	<b>ODOR</b> NONE	<b>BOILING POINT</b> (° F @ 760 mmHG): NE		
<b>SPECIFIC GRAVITY (H2O=1)</b> (H2O=1 @ 73° F) 1.014 - 1.33	<b>VAPOR PRESSURE (mm Hg.)</b> N/E	<b>VOLATILE BY VOLUME (%)</b> N/E		
<b>VAPOR DENSITY (AIR=1)</b> N/E	<b>EVAPORATION RATE (BUAC=1)</b> <1	<b>SOLUBILITY IN WATER</b> COMPLETE.		
<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>				
<b>FLASH POINT ( METHOD USED)</b>	<b>FLAMMABLE LIMITS</b>	<b>LEL</b>	<b>UEL</b>	
N/A	(PERCENT BY VOLUME)	N/A	N/A	
<b>FIRE EXTINGUISHING MEDIA</b> WATER, FOG, OR FOAM.				
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> FULL PROTECTIVE EQUIPMENT REQUIRED. MAY RELEASE AMMONIA AND HCl FUMES. TOXIC METAL HALIDE FUMES MAY BE PRODUCED.				
<b>UNUSUAL FIRE AND EXPLOSION HAZARD</b> DENSE SMOKE BE GENERATED.				
<b>SECTION V - HEALTH HAZARD DATA</b>				

PRIMARY ROUTES OR ENTRY  Inhalation  Skin contact  Eye contact  Ingestion

**EFFECT OF OVEREXPOSURE**

SWALLOWING: CAN CAUSE DAMAGE TO DIGESTIVE SYSTEM. CORROSIVE TO MUCOUS MEMBRANES

SKIN ABSORPTION: NONE CURRENTLY KNOW.

INHALATION: IRRITATION TO SYSTEM. COUGHING AND SNEEZING. EXISTING LUNG DISORDERS WILL BE AGGRAVATED.

SKIN CONTACT: DERMATITIS. IRRITATING TO SKIN. EXISTING DISORDERS WILL BE AGGRAVATED.

EYE CONTACT: IRRITATION TO EYES, TEARING, BURN OF EYE SURFACES, CORROSIVE TO EYES,.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

IRRITATIONS TO SKIN, EYES, AND RESPIRATORY SYSTEM. POSSIBLE LIVER AND KIDNEY EFFECTS.

**EMERGENCY AND FIRST AID PROCEDURES**

SWALLOWING: CALL A PHYSICIAN AT ONCE OR YOUR POISON CONTROL CENTER. ADVISE OF SECTION II IMMEDIATELY. CORROSIVE TO MUCOUS MEMBRANES.

SKIN: PROMPTLY FLUSH WITH WATER TO REMOVE ALL RESIDUE. IF RASH OR BURN DEVELOPS, CONSULT A PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. IF FUMES ARE INHALED, CALL A PHYSICIAN.

EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES TO REMOVE ALL RESIDUE. GET MEDICAL HELP NOW! BLINDNESS CAN RESULT!

**SECTION VI - REACTIVITY**

STABILITY	UNSTABLE		<b>CONDITIONS TO AVOID</b>
	STABLE	X	NONE

**INCOMPATIBILITY (MATERIALS TO AVOID)**

STRONG NITRIC, SULFURIC ACIDS, CYANIDE

<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> HYDROGEN CHLORIDE, HYDROGEN BROMIDE AND AMMONIA			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
		WILL NOT OCCUR	X
<b>SECTION VII - SPILL OR LEAK PROCEDURES</b>			
<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b> CONTAIN SPILL, ABSORB, SWEEP-UP, AND DISPOSE. FLUSH AREA TO CHEMICAL SEWER.			
<b>WASTE DISPOSAL METHOD</b> DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.			
<b>SECTION VIII - SPECIAL PROTECTION INFORMATION</b>			
<b>RESPIRATORY PROTECTION (Specify type)</b> IF THE WORK STATION IS NOT PROPERLY VENTILATED TO EXHAUST ALL FUMES AND VAPORS, USE A NIOSH APPROVED MASK.			
<b>VENTILATION</b> MAINTAIN AIR FLOW AWAY FROM USER TO REMOVE ALL FUMES AND VAPORS, SO THAT THE PEL IS NEVER EXCEEDED. ADHERE TO ENVIRONMENTAL REGULATIONS FOR EXHAUSTS.			
<b>PROTECTIVE GLOVES</b> CHEMICAL AND ACID IMPERVIOUS		<b>EYE PROTECTION</b> CHEMICAL TIGHT SAFETY GOGGLES. DO NOT WEAR CONTACT LENSES.	
<b>OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES</b> FULL PROTECTIVE EQUIPMENT NORMALLY USED IN A SOLDERING OPERATION SO AS TO PREVENT ANY CONTACT.			
<b>SECTION IX - SPECIAL PRECAUTIONS</b>			
<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING</b> STORE FLUX AT INDOORS AND AWAY FROM HEAT. WASH THOROUGHLY AFTER			

HANDLING TO REMOVE ALL RESIDUE.

**OTHER PRECAUTIONS**

DO NOT BREATHE FUMES. PROFESSIONALLY WASH CONTAMINATED CLOTHING BEFORE RE-USE. EXISTING LUNG DISORDERS WILL HAVE INCREASED TOXIC SUSCEPTIBILITY.

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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