



## Big Blue

### 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> Big Blue																				
SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION																						
HAZARDOUS COMPONENTS	CAS#	APPROX%	ACGIH-TLV	OSHA-PEL																		
ISOPROPYL ALCOHOL	67630	10-15	400	400																		
ETHYLENE GLYCOL N-BUTYL ETHER	111-76-2	13-18	25	50																		
*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																				
NOT HAZARDOUS FOR SHIPPING PURPOSES.		<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>HMS</u></td> <td style="text-align: center;"><u>HAZARD RATING</u></td> </tr> <tr> <td>HEALTH</td> <td style="text-align: center;">0</td> <td>0 - MINIMAL</td> </tr> <tr> <td>FLAMMABILITY</td> <td style="text-align: center;">2</td> <td>1- SLIGHT</td> </tr> <tr> <td>REACTIVITY</td> <td style="text-align: center;">0</td> <td>2- MODERATE</td> </tr> <tr> <td>PROTECTIVE</td> <td></td> <td>3- SERIOUS</td> </tr> <tr> <td>EQUIPMENT</td> <td style="text-align: center;">A</td> <td>4- SEVERE</td> </tr> </table>				<u>HMS</u>	<u>HAZARD RATING</u>	HEALTH	0	0 - MINIMAL	FLAMMABILITY	2	1- SLIGHT	REACTIVITY	0	2- MODERATE	PROTECTIVE		3- SERIOUS	EQUIPMENT	A	4- SEVERE
			<u>HMS</u>	<u>HAZARD RATING</u>																		
		HEALTH	0	0 - MINIMAL																		
		FLAMMABILITY	2	1- SLIGHT																		
		REACTIVITY	0	2- MODERATE																		
PROTECTIVE		3- SERIOUS																				
EQUIPMENT	A	4- SEVERE																				
SECTION III - PHYSICAL DATA																						
<b>APPEARANCE</b> BLUE PASTE		<b>ODOR</b> MILD		<b>BOILING POINT</b> 180° F																		
<b>SPECIFIC GRAVITY (H2O=1)</b> 1.41		<b>VAPOR PRESSURE (mm Hg.)</b>		<b>VOLATILE BY VOLUME (%)</b> N/A																		

	(AT 25° C) .88		
<b>VAPOR DENSITY (AIR=1)</b> >1	<b>EVAPORATION RATE (BUAC=1)</b> .6	<b>SOLUBILITY IN WATER</b> SLIGHT	
<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>			
<b>FLASH POINT ( METHOD USED)</b> 78° F (25° C) ASTM METHOD D93-80	<b>FLAMMABLE LIMITS</b> (PERCENT BY VOLUME)	<b>LEL</b> 1.1%	<b>UEL</b> 10.6%
<b>FIRE EXTINGUISHING MEDIA</b> CARBON DIOXIDE OR DRY CHEMICAL OR WATER.			
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> NONE			
<b>UNUSUAL FIRE AND EXPLOSION HAZARD</b> CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRES OR EXPLOSIONS. CARBON MONOXIDE MAY BE RELEASED.			
<b>SECTION V - HEALTH HAZARD DATA</b>			
PRIMARY ROUTES OR ENTRY <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin contact <input type="checkbox"/> Eye contact <input checked="" type="checkbox"/> Ingestion			
<b>EFFECT OF OVEREXPOSURE</b> INHALATION: POSSIBLE DIZZINESS IF USED IN CONFINED AREA.  SKIN: MAY CAUSE MILD IRRITATION TO SENSITIVE SKIN.			
<b>MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE</b> NONE			
<b>EMERGENCY AND FIRST AID PROCEDURES</b> EYE CONTACT: FLUSH EYES WITH WATER.  SKIN CONTACT: WASH CLOTHING BEFORE REUSE. WASH SKIN WITH SOAP AND WATER.  INHALATION: REMOVE TO WELL VENTILATED AREA.  INGESTION: CALL PHYSICIAN.			
<b>SECTION VI - REACTIVITY</b>			
<b>STABILITY</b>	UNSTABLE		<b>CONDITIONS TO AVOID</b>
	STABLE	X	NONE
<b>INCOMPATIBILITY (MATERIALS TO AVOID)</b> LIQUID OXYGEN SYSTEMS, LIQUID SODIUM, GASEOUS FLUORINE, STRONG OXIDIZERS.			
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> NONE			
<b>HAZARDOUS POLYMERIZATION</b>	MAY OCCUR		<b>CONDITIONS TO AVOID</b>
	WILL NOT OCCUR	X	NONE
<b>SECTION VII - SPILL OR LEAK PROCEDURES</b>			

<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b> NORMAL GOOD HOUSEKEEPING PROCEDURES.	
<b>WASTE DISPOSAL METHOD</b> DISPOSAL TO BE DONE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.	
SECTION VIII - SPECIAL PROTECTION INFORMATION	
<b>RESPIRATORY PROTECTION (Specify type)</b> AVOID BREATHING OF FUMES. IF USED IN CONFINED AREA A RESPIRATOR MAY BE NECESSARY.	
<b>VENTILATION</b> LOCAL EXHAUST - NORMAL VENTILATION IS ADEQUATE.	
<b>PROTECTIVE GLOVES</b> MAY BE NECESSARY FOR SENSITIVE SKIN.	<b>EYE PROTECTION</b> KEEP OUT OF EYES. WEAR PROTECTIVE GOGGLES WHERE NECESSARY.
<b>OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES</b> NONE	
SECTION IX - SPECIAL PRECAUTIONS	
<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING</b> NONE	
<b>OTHER PRECAUTIONS</b> NONE	
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.	

---

**Black Swan Mfg. Co.** Telephone:773-227-3700 E-mail: [info@blackswanmfg.com](mailto:info@blackswanmfg.com)  
4540 W. Thomas Street Wats:800-252-5796 Web site:<http://www.blackswanmfg.com>  
Chicago, IL 60651-3318 Fax:773-227-3705