






SECTION 1 - IDENTIFICATION

Manufacturer: Black Swan Manufacturing Co. 4540 W. Thomas Street Chicago, IL 60651-3318 Telephone: 1-800-252-5796 Fax: 1-773-227-3705 Web Site: www.blackswanmfg.com E-mail: info@blackswanmfg.com	For any transportation or medical chemical emergencies call: INFOTRAC (800) 535-5053 <u>OR</u> (352) 323-3500 24 hours per day - 7 days a week
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Product Name: 3 Way Cement (Clear) - Medium Bodied	Recommended Use: For connecting PVC, ABS and CPVC pipe and fittings.
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SECTION 2 - HAZARD(S) IDENTIFICATION

<p>Label</p>  <p>Flammable</p>  <p>Irritant</p>	<p>NFPA</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: left;"> <p>HEALTH HAZARD</p> <p>4 Deadly 3 Extreme Danger 2 Hazardous 1 Slightly Hazardous 0 Normal Material</p> </div> <div style="text-align: center;">  </div> <div style="text-align: left;"> <p>FIRE HAZARD Flash Points</p> <p>4 Below 73°F (Boiling pt. below 100°F) 3 Below 73°F (Boiling pt. at/above 100°F) and/or at/above 73°F - not exceeding 100°F 2 Above 100°F, Not exceeding 200°F 1 Above 200°F 0 Will not burn</p> </div> </div> <p>INSTABILITY</p> <p>4 May detonate 3 Shock and heat may detonate 2 Violent chemical changes 1 Unstable if heated 0 Stable</p> <p>SPECIFIC HAZARD</p> <p>Oxidizer OX Use NO WATER W Simple Asphyxiant SA</p>	<p>HMS</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>HEALTH</td><td>2</td></tr> <tr><td>FLAMMABILITY</td><td>3</td></tr> <tr><td>REACTIVITY</td><td>1</td></tr> </table> <p style="margin-left: 20px;">0 Minimal Hazard 1 Slight Hazard 2 Moderate Hazard 3 Serious Hazard 4 Severe Hazard</p> <p style="margin-left: 20px;">PPE H</p>	HEALTH	2	FLAMMABILITY	3	REACTIVITY	1
HEALTH	2							
FLAMMABILITY	3							
REACTIVITY	1							
<p>Health</p> <p>Acute Toxicity: Cat. 4 Skin Corrosion: Cat. 3 Eye Irritation: Cat. 2B Skin Sensitization: NO</p>	<p>Environmental</p> <p>Acute Toxicity: N/A Chronic Toxicity: N/A</p>	<p>Physical</p> <p>Flammability: Cat. 2 Other: N/A</p>						
<p>Hazardous Statement</p> <p>Extremely flammable. Vapors harmful. Harmful if swallowed. May irritate skin and eyes. Vapors may ignite explosively.</p>	<p>Precautionary Statement</p> <p>Avoid contact with skin and eyes. Keep out of reach of children. Do not allow to be taken internally. Keep away from heat, spark, open flame, other sources of ignition. Use only in a well ventilated area. Avoid breathing vapors.</p>							

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Chemicals</u>	<u>CAS #</u>	<u>EINECS#</u>	<u>Approx %</u>
TETRAHYDROFURAN	109-99-9	203-726-8	25-45%
METHYL ETHYL KETONE	78-93-3	201-159-0	20-40%
CYCLOHEXANONE	108-94-1	203-631-1	10-20%

*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: If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Skin: Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.

Eyes: Flush eyes with plenty of water for 15 minutes and call a physician.

Ingestion: Give 1 or 2 glasses of water or milk to dilute. **Do not induce vomiting.** Call a physician or poison control center immediately.

SECTION 5 - FIRE-FIGHTING MEASURES

<u>Extinguishing Media</u>		<u>Specific Hazards</u>	<u>Protective Equipment</u>
<u>Suitable</u> Carbon Dioxide Dry Chemical Powder Water Fog Gas, Foam	<u>Unsuitable</u> Water Spray Water Stream	Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to sources of ignition.	Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.
<u>Special Firefighting Procedures</u>			
Evacuate enclosed areas, stay upwind. Close or confine quarters required self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.			

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

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.

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

Methods for Cleaning-Up: Clean up with sand or other absorbent material. Transfer to covered, labeled, metal container.

Other Precautions: None.

SECTION 7 - HANDLING AND STORAGE

<u>Handling</u>	<u>Storage</u>
Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work this product.	Store in shade between 40°F-110°F. Keep away from heat, sparks, open flame and other sources of ignition.

MATERIAL SAFETY DATA SHEET

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Exposure Limits

Hazardous Components

TETRAHYDROFURAN
METHYL ETHYL KETONE
CYCLOHEXANONE

ACGIH-TLV

50 ppm
200 ppm
20 ppm

OSHA-PEL

200 ppm
200 ppm
50 ppm

Personal Protective Equipment

Respiratory Protection: Atmospheric levels should be maintained below established exposure limits. If airborne concentrations exceed those limits, use of a NIOSH approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.

Ventilation: Local ventilation is adequate. Use only explosion proof ventilation equipment.

Other Protective Equipment: Protective Gloves Eyes and Face Protection Other Protective Equipment
PVA Coated Gloves. Splashproof Goggles. Impervious Apron.

Other Precautions: None.

Engineering Controls

A source of running water to flush or wash the eyes and skin in case of contact.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

<p>Appearance: Clear</p> <p>Odor: Ether-like</p> <p>Odor Threshold: N/A</p> <p>pH: N/A</p> <p>Melting/Freezing Point: N/A</p> <p>Boiling Point: 151 °F</p> <p>Boiling Range: N/A</p> <p>Flash Point: 6 °F</p> <p>Evaporation Rate: 8 (butyl acetate=1)</p> <p>Flammability: N/A</p> <p>Flammability Limits: LEL:1.8% ; UEL: 11.8%</p>	<p>Volatile by Volume: 80-90%</p> <p>Vapor Pressure: 143 mmHg @ 20 °C</p> <p>Vapor Density: 2.5 (Air=1)</p> <p>Relative Density: N/A</p> <p>Solubility: Negligible</p> <p>Partition Coefficient: n-octanol/water: N/A</p> <p>Auto-ignition Temperature: N/A</p> <p>Specific Gravity (H2O=1): 0.91</p> <p>Viscosity: N/A</p> <p>VOC: 510 g/l</p>
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SECTION 10 - STABILITY AND REACTIVITY

<u>Stability</u>	<u>Hazardous Polymerization</u>	<u>Conditions To Avoid</u>
Stable Unstable <input checked="" type="checkbox"/> <input type="checkbox"/>	May Occur Will Not Occur <input type="checkbox"/> <input checked="" type="checkbox"/>	Keep away from heat, sparks open flame and other sources of ignition.
<u>Incompatible Materials</u>		<u>Hazardous Decomposition Products</u>
Oxidizers, Acids and Bases.		Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride and other various Hydrocarbons.

MATERIAL SAFETY DATA SHEET

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Likely Routes of Exposure</u>	<u>Symptoms/Effects</u>	
Inhalation <input checked="" type="checkbox"/>	Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.	
Skin Contact <input checked="" type="checkbox"/>	Skin irritant. Liquid contact may remove natural skin oils resulting in irritation. Dermatitis may occur with prolonged contact.	
Eye Contact <input type="checkbox"/>	None.	
Ingestion <input type="checkbox"/>	None.	
Long-Term Effects:	None.	
Pre-Existing Conditions:	Individuals with pre-existing diseases of the eyes, skin or respiratory system may have increased susceptibility to the toxicity of excessive exposures.	
<u>Toxicity</u>		
<u>Hazardous Components</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
TETRAHYDROFURAN	Oral: 1,650 mg/kg (rat)	Inhalation: 21,000 mg/m3 (rat)
METHYL ETHYL KETONE	Oral: 2,737 mg/kg (rat) , Dermal:6,480 mg/kg (rabbit)	Inhalation: 23,500 mg/m3 (rat)
CYCLOHEXANONE	Oral: 1,620 mg/kg (rat) , Dermal 1 mL/kg (rabbit)	Inhalation: 8,000 ppm (rat)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	None.
Persistence & 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

<u>Shipping Information</u>		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.
Shipping Name:	Adhesives, Containing a Flammable Liquid	
Hazardous Class:	3	
I.D. Number:	UN1133	
Packing Group:	II	
Label Required:	Flammable Liquid	
Marine Pollutant:	No.	

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.		