



Special Effects Equipment & Supplies

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For Chemical Emergency call Infotrac @ 1-800-535-5053

### Material Safety Data Sheet

Section 1 - Product Identification	
<b>Product Name:</b>	Propylene Glycol
<b>Chemical Name:</b>	Propylene Glycol

Section 2 - Hazardous Ingredients		
Chemical Name	CAS#	Percentage
Propylene Glycol	57-55-6	>99.8%
<b>Exposure Limits</b>	<b>Permissible Exposure Limit:</b>	10 mg/m3
	<b>Ceiling Limits:</b>	N/A
	<b>Short Term Exposure Limit:</b>	N/A
	<b>Can be absorbed through skin?:</b>	No

Section 3 - Physical/Chemical Characteristics			
<b>Boiling Point</b>	369.3F	<b>Solubility in Water</b>	100%
<b>Vapor Pressure (mm Hg)</b>	0.3 mbar	<b>Specific Gravity (H2O = 1)</b>	1.04
<b>Vapor Density (Air = 1)</b>	2.62	<b>Melting Point</b>	N/A
<b>Appearance and Odor / Odor threshold</b>	Colorless, odorless liquid.		
<b>Evaporation Rate (Butyl Acetate = 1)</b>	0.01	<b>PH</b>	N/A
<b>Freezing Point</b>	N/A		

Section 4 - Fire and Explosion Data			
<b>Lower Explosive/Flammability Limit</b>	2.60%	<b>Flash Point</b>	217F
<b>Upper Explosive/Flammability Limit</b>	12.50%	<b>Autoignition Temperature</b>	700F
<b>Extinguishing Media</b>	Water fog or fine spray, Dry chemical fire extinguishers, Carbon dioxide fire extinguishers, Foam. Do not use direct water stream. May spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.		
<b>Fire Fighting Measures</b>	Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.		
<b>Special Protective Equip. for Firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.		
<b>Fire or Explosion Hazards</b>	Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon Monoxide, Carbon Dioxide.		

### Section 5 - Reactivity Data

<b>Chemical Stability</b>	Stable under recommended storage conditions (See Section 7)
<b>Conditions to avoid</b>	Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid direct sunlight or ultraviolet sources.
<b>Incompatibility</b>	Strong acids, strong bases, strong oxidizers.
<b>Hazardous Decomposition or Byproducts</b>	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to:
	Aldehydes. Alcohols. Ethers. Organic acids.
<b>Hazardous Polymerization</b>	Will not occur.

### Section 6 - Health Hazard Data

<b>Routes of Entry</b>	Eye Contact.
<b>Health Hazards</b>	No significant immediate hazards for emergency response are known.
<b>Carcinogenicity</b>	Did not cause cancer in laboratory animals.
<b>Signs and Symptoms of Exposure</b>	<u>Eye Contact:</u> May cause slight temporary eye irritation. Corneal injury is unlikely. Mist may cause eye irritation.
	<u>Skin Contact:</u> Prolonged contact is essentially nonirritating to skin. Repeated contact may cause flaking and softening of skin.
	<u>Skin Absorption:</u> Prolonged skin contact is unlikely to result in absorption of harmful amounts.
	<u>Inhalation:</u> At room temperature, exposure to vapor is minimal due to low volatility. Mist may cause irritation of upper respiratory tract (nose and throat)
	<u>Ingestion:</u> Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
	<u>Repeated Exposure:</u> In rare cases, repeated excessive exposure may cause central nervous system effects.
<b>Medical conditions generally aggravated by exposure</b>	N/A
<b>Emergency and First Aid Procedures</b>	<b>Eyes:</b> Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
	<b>Skin Contact:</b> Wash skin with plenty of water.
	<b>Inhalation:</b> Move person to fresh air; if effects occur, consult a physician.
	<b>Ingestion:</b> No emergency medical treatment necessary.
	<b>Notes to Physician:</b> No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### Section 7 - Precautions for Safe Handling and Use

<b>Spill or Release Data</b>	Contain spilled material if possible.
	<u>Small Spills:</u> Any absorbent material. Collect in suitable and properly labeled open containers. Wash the spill site with large quantities of water.
	<u>Large Spills:</u> Dike area to contain spill. Pump into suitable and properly labeled containers. See below for waste disposal.
<b>Waste Disposal Method</b>	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. <b>VENDOR HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS.</b>
	For unused and uncontaminated product, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device.
<b>Handling and Storage</b>	Product handled hot may require additional ventilation or local exhaust (See Section 8).
	Store away from direct sunlight or ultraviolet light. Keep container tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture. Store in the following material(s): Stainless steel. Aluminum. Plaste 3066 lined container. 316 stainless steel. Opaque HDPE plastic container.
<b>Other Precautions</b>	Use appropriate safety equipment (See Section 8). Keep unnecessary and unprotected personnel from entering the area.
	Spilled material may cause a slipping hazard.

### Section 8 - Control Measures

<b>Respiratory Protection</b>	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Organic vapor with acid gas cartridge and particulate pre-filter.
<b>Protective Gloves</b>	Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.
<b>Eye Protection</b>	Safety glasses should be sufficient for most operations; however, for misty operations wear chemical goggles.
<b>Other Protective Equip.</b>	Clean body-covering should be needed.
<b>Ventilation</b>	Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.
<b>Work/Hygienic Practices</b>	Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

To the best of our knowledge, the information contained above is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained above.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described above, we cannot guarantee that these are the only hazards that exist.

Prepared: October 2006