

MATERIAL SAFETY DATA SHEET

FIVE STAR AFFILIATES, INC.
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COMMERCE CITY CO 80022

PHONE: 303-287-0186
MSDS DATE: 12-15-10
REPLACES: 07-17-01

IDENTIFICATION

PRODUCT NAME: PROPYLENE GLYCOL
COMPOSITION: NON-HAZARDOUS

HAZARDOUS INGREDIENTS

U.S. Regulations: SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Have not met any hazard category.

	%	TLV in Air
Propylene Glycol (CAS 00057-55-6)	99	50 ppm Aerosol Only

PHYSICAL DATA

APPEARANCE: Colorless Liquid	ODOR: Odorless
SOLUBILITY IN WATER: Complete	SPECIFIC GRAVITY: 1.038 20/20°C, 68°F
VAPOR PRESSURE: 0.08 mm Hg @ 20C, 68F	VAPOR DENSITY: 2.62
BOILING POINT: 370°F., 188°C.	

FIRE AND EXPLOSION DATA

FLASH POINT:	218°F, 103°C	FLAMMABLE LIMITS:
METHOD USED:	PMCC	LFL- 2.6%
		UFL- 12.5%
EXTINGUISHING MEDIA:	Water fog, alcohol foam, CO ₂ , dry chemical	
SPECIAL FIRE FIGHTING PROCEDURES:	Wear a positive-pressure, self-contained breathing apparatus.	

HEALTH HAZARD DATA

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN CONTACT: Prolonged contact is essentially nonirritating to skin. Repeated exposure may cause slight flaking, tenderness, and softening of skin.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is >10 g/kg.

INGESTION: Single dose oral toxicity is extremely low. The oral LD50 for rats is 21-33.7 g/kg. No hazards anticipated from ingestion incidental to industrial exposure.

Inhalation: A single prolonged (hours) inhalation exposure is not likely to cause adverse effects. Mists are not likely to be hazardous.

SYSTEMATIC (OTHER TARGET ORGAN) EFFECTS: Repeated excessive ingestion may cause central nervous system effects.

CANCER INFORMATION: Did not cause cancer in long-term animal studies.

TERATOLOGY (BIRTH DEFECTS): Birth defects are unlikely. Exposures having no adverse on the mother should have no effect on the fetus.

REPRODUCTIVE EFFECTS: In animal studies, has been shown to interfere with reproduction.

FIRST AID

EYES: Irrigate immediately with water for at least 5 minutes.

SKIN: Wash off in flowing water or shower

INGESTION: No adverse effects anticipated by this route of exposure.

INHALATION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgement of the physician to response to reactions of the patient.

REACTIVITY DATA

INCOMPATIBILITY: Oxidizing material.

STABILITY: Stable under normal storage conditions.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: Propionaldehyde, carbon monoxide in the presence of limited oxygen in a fire situation.

ENVIRONMENTAL AND DISPOSAL INFORMATION

SPILL: **Small spills:** Cover with absorbent material, soak up and sweep into a drum.
 Large spills: Dike around spill and pump into suitable containers.

DISPOSAL: Reprocess or burn in an approved incinerator in accordance with all Federal, state, and local requirements.

HANDLING PRECAUTIONS

EXPOSURE GUIDELINES: AIHA WEEL is a 50 ppm total; 10 mg/m³ aerosol only. There is no OSHA PEL or ACGIH TLV for propylene glycol.

VENTILATION: Good general ventilation should be sufficient.

RESPIRATION: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying.

SKIN: Use impervious gloves when prolonged or frequently repeated contact could occur.

EYES: Use safety glasses. Where contact with liquids is likely, chemical goggles

are recommended because eye contact with this material may cause pain, even though it is unlikely to cause injury.

EMERGENCY TELEPHONE: INFOTRAC 800-535-5053