

Material Safety Data Sheet

PRODUCT NAME: PROPYLENE GLYCOL USP KOSHER

CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: PROPYLENE GLYCOL USP KOSHER
CAS#: 57-55-6
DATE: December 2, 2009

DISTRIBUTOR: ACME-HARDESTY COMPANY
ADDRESS: 450 Sentry Parkway
Blue Bell, PA 19422

TELEPHONE: (866) 226-3834
FAX: (215) 591 – 3620
EMERGENCY: CHEMTREC (800) 424-9300

COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	%	TWAEV / TLV	LD50	(mg/kg)	LC ₅₀ ppm
		ppm / mg/m ³	ORAL	SKIN	INHALATION
1,2dihydroxypropane	57-55-6	not listed	18,500	20,800	not known

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CANADA – WHMIS: Not controlled under WHMIS

U.S.A. – HMIS: Health 0
Fire: 1
Reactivity: 0

PHYSICAL/CHEMICAL CHARACTERISTICS

ODOR & APPEARANCE: Clear, colorless, odorless, viscous, hygroscopic liquid
ODOR: Threshold not known odorless
VAPOR PRESSURE: 0.08mmHg / 0.011kPa (20°C / 68°F)
EVAPORATION RATE (Butyl Acetate = 1): 0.01
VAPOR DENSITY (AIR = 1): 2.5
BOILING RANGE: 188°C / 370°F
FREEZING POINT: -60°C / -76°F – super cools readily
SPECIFIC GRAVITY: 1.037 (20/20°C)
WATER SOLUBILITY: Complete
ALSO SOLUBLE IN: All polar organic solvents and benzene
Limited solubility in aliphatic hydrocarbons
VISCOSITY: 56 Centipoise (20°C / 68°F)
pH: None – (does not liberate hydrogen ions when dissolved)
MOLECULAR WEIGHT: 76 grams per mole

FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Above 99°C / 210°F (closed cup)
AUTO-IGNITION TEMP: 371°C / 700°F
FLAMMABLE LIMIT, %: 2.6 – 12.5
COMBUSTION PRODUCTS: Carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments
FIRE FIGHTING PRECAUTIONS: Foam, dry chemical, water fog, water spray; Fire fighters must wear SCBA
STATIC CHARGE ACCUMULATION: Cannot accumulate a static charge on agitation or pumping

FIRST AID MEASURES

INGESTION: Give plenty of water to dilute product.
Do not induce vomiting (NOTE below).
Keep victim quiet.
If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material.
Seek medical help promptly.

EYE CONTACT: Wash eyes with plenty of water, holding eyelids open.
Seek medical assistance promptly if there is irritation.

SKIN CONTACT: Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered.

INHALATION: Remove from contaminated area promptly.
CAUTION: Rescuer must not endanger himself!
If breathing stops, administer artificial respiration and seek medical aid promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs.
The danger of this is greater than the risk of poisoning through absorption of this relatively low toxicity substance.
The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.

ACCIDENTAL RELEASE MEASURES

LEAK PRECAUTION: Dyke to control spillage and prevent environmental contamination
HANDLING SPILL: Recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel and store in closed containers for recycling or disposal.

STABILITY/REACTIVITY DATA

DANGEROUS REACTIONS: Strong oxidizing agents
ADDITIONAL DANGEROUS REACTIONS: Attacks polyvinyl chloride; elastomers like Dacron & epoxy are attacked >95°C
STABILITY/POLYMERIZATION: Stable; will not polymerize
DECOMPOSITION PRESENCE: Not known
DECOMPOSITION PRODUCTS: None apart from Hazardous Combustion Products
MECHANICAL IMPACT SENSITIVITY: No

HEALTH HAZARD DATA

ACUTE EXPOSURE EFFECTS:

SKIN CONTACT:	Little to no effect
SKIN ABSORPTION:	Slight; no toxic effects likely by this route
EYE CONTACT:	Little to no effect
INHALATION:	Strongly heated liquid may create sufficient vapor to irritate;
INGESTION:	Little to no effect; also little effect in experimental long-term inhalation studies

CHRONIC EXPOSURE EFFECTS:

GENERAL:	Prolonged skin exposure has caused irritation in 16% of dermatitis patients. Irritation seen in normal people appears to have been caused by local osmotic dehydration of skin which disappeared rapidly after product removed.
SENSITIZING:	NOT A SENSITIZER IN HUMANS OR ANIMALS
CARCINOGEN/TUMORIGEN:	Not considered a tumorigen or a carcinogen in humans or animals
REPRODUCTIVE EFFECT:	No known effect in humans or animals
MUTAGEN:	No known effect on humans or animals
SYNERGISTIC WITH:	Not known

HANDLING AND STORAGE

STORAGE:	Store in a dry environment, away from open flame and oxidizing agents. Always ensure that containers, whether empty or full, or part full, are tightly sealed unless in use. If product is heated above 100°C (212°F), do not breathe the vapor. Never cut, drill, weld or grind on or near this container. Wash work clothes frequently. An eye bath and safety shower should be available near the workplace.
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EXPOSURE CONTROLS / PERSONAL PROTECTION

STEL:	Not listed
VENTILATION:	No special ventilation required
HANDS:	No special protective gloves required
EYES:	Safety glasses with side shields – <i>always protect the eyes</i>
CLOTHING:	No special protective clothing required

TOXICOLOGICAL INFORMATION

LD₅₀ (oral) 20,000mg/kg (rat),
22,000mg/kg (mouse & dog),
18,500mg/kg (rabbit & guinea pig)
LD₅₀ (skin) 20,800mg/kg (rabbit)
LC₅₀ (inhalation) not known

ECOLOGICAL INFORMATION

BIOACCUMULATION:	This product is not a bio-accumulator – biological half-life is less than 3 hours
BIODEGRADATION:	This product degrades readily in the presence of oxygen with 78% biodegradation in 40 days
ABIOTIC DEGRADATION:	This product reacts with atmospheric hydroxyl radicals; Its estimated half-life in air is 32 hours
MOBILITY IN SOIL, WATER:	This product is water soluble and moves readily in soil and water.

REGULATORY INFORMATION (Cont'd)

ATMOSPHERIC STANDARDS:

This action promulgates standards of performance for equipment leaks of Volatile Organic Compounds (VOC) in the Synthetic Organic Chemical Manufacturing Industry (SOCMI).

The intended effect of these standards is to require all newly constructed, modified, and reconstructed SOCMI process units to use the best demonstrated system of continuous emission reduction for equipment leaks of VOC, considering costs, non air quality health and environmental impact and energy requirements.

Propylene glycol is produced, as an intermediate or a final product, by process units covered under this sub-part.

STATE DRINKING WATER GUIDELINES: New Hampshire 140,000 ug/l

FIFRA REQUIREMENTS:

As the federal pesticide law FIFRA directs, EPA is conducting a comprehensive review of older pesticides to consider their health and environmental effects and make decisions about their future use.

Under this pesticide re-registration program, EPA examines health and safety data for pesticide active ingredients initially registered before November 1, 1984, and determines whether they are eligible for re-registration.

In addition, all pesticides must meet the new safety standard of the Food Quality Protection Act of 1996.

Pesticides for which EPA had not issued Registration Standards prior to the effective date of FIFRA, as amended in 1988, were divided into three lists based upon their potential for human exposure and other factors, with List B containing pesticides of greater concern and List D pesticides of less concern.

Propylene glycol is found on List C. Case No: 3126; Pesticide type: insecticide, fungicide, anti-microbial; Case Status: OPP is reviewing data from the pesticide's producers regarding its human health and/or environmental effects, or OPP is determining the pesticide's eligibility for re-registration and developing the Re-registration Eligibility Decision document.;

Active ingredient (AI): Propylene glycol; Data Call-in (DCI) Date(s): 08/02/93; AI Status: The producers of the pesticide has made commitments to conduct the studies and pay the fees required for re-registration, and are meeting those commitments in a timely manner.

FDA REQUIREMENTS:

Substance added directly to human food affirmed as generally recognized as safe.

Propylene glycol used in animal drugs, feeds, and related products is generally recognized as safe when used in accordance with good manufacturing or feeding practice.

Propylene glycol used in animal drugs, feeds, and related products is generally recognized as safe (except in cat food) when used in accordance with good manufacturing or feeding practice.

Drug products containing certain active ingredients offered over the counter (OTC) for certain uses.

Propylene glycol is included in pediculicide drug products.

OTHER INFORMATION

CANADA – WHMIS: Not controlled under WHMIS

KEY: B 2 – Flash Point <38°C,
B 3 – Flash Point >38°C & <93°C
D 1 – Immediately Toxic,
D 2 – Chronic Toxicity
C – Oxidizing Substance,
E – D Corrosive

U.S.A. – HMIS: Health – 0, Fire – 1, Reactivity – 0

KEY: 0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

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Disposal of containers must comply with applicable federal, state and local laws and regulations. Empty containers should never be given to individuals.