SAFETY DATA SHEET: PROPYLENE GLYCOL

1. IDENTIFICATION

Product Name: PROPYLENE GLYCOL
Synonyms: 1,2-Propanediol
Formula and Formula Weight: CH3CH(OH)CH2OH  76.10
Integra numbers beginning with: P923.31; P923.32; P923.50
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

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2. HAZARDS IDENTIFICATION

OSHA Classification: None identified
Hazard Category: Not applicable
Hazard Statement: None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component | Synonyms | CAS # | % Weight
--- | --- | --- | ---
Propylene glycol | 1,2-Propanediol | 00057-55-6 | 100

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air.
Eye Contact: Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
Skin Contact: Wash with soap and water. Seek medical attention if irritation develops.
Ingestion: Do not induce vomiting. Rinse mouth. If adverse symptoms develop, seek medical attention.
Additional notes: Symptoms and effects include eye, gastrointestinal irritation; nausea, vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: None identified
Hazardous combustion products: Oxides of carbon, Propionaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Prevent spread of spill. Absorb with sand or inert material. Sweep or scoop into a disposal container. Flush spill area with water.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong oxidizers. Acid anhydrides, acid chlorides, chloroformates, reducing agents.
Storage and Handling: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and protect them from physical damage. Hygroscopic material. Protect from exposure to moisture and moist air. Light sensitive.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:
Propylene glycol None identified

Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety glasses.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless viscous liquid
Odor: Odorless
Odor Threshold: Not available
pH: Not available
Melting/Freezing Point: -60 °C
Initial Boiling Point and Boiling Range: 188 °C
Flash Point: 103 °C
Evaporation Rate: < 1 Butyl Acetate=1
Flammability: Not available
Flammable or Explosive
Limits (% by volume in air)
Vapor Pressure: 0.08 mm Hg@20°C
Vapor Density: 2.62
Relative Density: 1.04 Water=1
Solubility: Miscible with water
Partition Coefficient: n-octanol/water Not available
Auto-Ignition Temperature: 371 °C
Decomposition Temperature: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY
Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Incompatibles: Incompatible with strong oxidizers. Acid anhydrides, acid chlorides, chloroformates, reducing agents.

11. TOXICOLOGICAL INFORMATION
Effects of Over Exposure:
Inhalation: No harmful effects expected
Skin Contact: No adverse symptoms or reactions expected.
Eye Contact: Contact may be irritating to the eyes.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea and vomiting.
Chronic Effects: None identified
Target Organs: None identified
Additional Effects: May can central nervous system depression.
Reproductive Effects: None identified
Carcinogenicity: None identified
Toxicity Data:
Propylene glycol LD50 (skin, rabbit) 20,800 mg/kg
LD50 (oral, rat) 20,000 mg/kg

12. ECOLOGICAL INFORMATION
Propylene glycol
Aquatic Toxicity Data: EC50 Daphnia magna: >10,000 mg/L - 48
Terrestrial Toxicity Data: No information available
Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS
Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION
This product is not a regulated material for domestic ground transporation.

Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION
Propylene glycol is listed in the TSCA inventory.

16. OTHER INFORMATION
OSHA SDS #: 26251 rev 101 3/27/2015

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***** END OF SDS *****