

1. Chemical Product and Company Identification

Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620
Product Name: **POLY PVA SOLUTION (GREEN OR CLEAR)**
Chemical Family: Alcohol

2. Hazardous Constituents

<u>Ingredient/CAS #</u>	<u>Exposure Limits</u>
Isopropyl alcohol, 67-63-0 (2-propanol)	OSHA PEL 400 ppm ACGIH TLV 200 ppm TWA, 400 ppm STEL
Polyvinyl alcohol, 25213-24-5	None established

3. Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin or eye contact
EYE: May cause eye irritation.
SKIN: Low dermal toxicity. May cause irritation and dermatitis.
INGESTION: Moderately toxic by ingestion. Poses a health hazard if ingested in large quantities.
INHALATION: Exposure to high vapor concentration (>1000 ppm) may cause respiratory irritation or headache dizziness, anesthetic effects, or other central nervous system effects.
CHRONIC EFFECTS: May cause kidney damage after prolonged or repeated inhalation of vapors.
CARCINOGENICITY: Not listed as a carcinogen by IARC, NTP, or OSHA.

4. First Aid Measures

EYE CONTACT: Flush with water for at least 10 min. If irritation persists, seek medical attention.
SKIN CONTACT: Wash thoroughly with soap and warm water. If irritation develops, seek medical attention.
INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Seek medical attention.
INGESTION: If conscious, give two glasses of water, then induce vomiting. Seek medical attention.

5. Fire Fighting Measures

FLASH POINT: 53°F (TCC)
FLAMMABLE LIMITS: LEL: 2.0 UEL: 12.0
FIRE HAZARDS: Do not use near ignition source, spark, or open flame. Vapors confined in a poorly ventilated area may be ignited by a spark or flame. Vapors are heavier than air and may accumulate in low areas and travel long distances to a source of ignition. Containers may rupture or explode under fire conditions. Materials can accumulate static, which can cause a spark.
EXTINGUISHING MEDIA: CO₂, dry chemical, foam, or water fog.
HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, and other potentially hazardous compounds.
OTHER INFORMATION: Firefighters wear SCBA and full-body protective suit. Use water to keep fire-exposed containers cool.

6. Accidental Release Measures

Evacuate area until vapor has dispersed. Extinguish all sources of ignition. Stop or reduce discharge if it can be done safely. Emergency personnel wear personal protective equipment.

Absorb spilled material with non-reactive absorbent such as sawdust, vermiculite, or sand. Collect and containerize spill material. Dispose of in accordance with federal, state and local regulations (see Section 11 of MSDS).

7. Handling and Storage

HANDLING: Avoid breathing vapor and avoid prolonged and repeated contact with skin. Use in well ventilated area. If area is not adequately ventilated, use respiratory protective equipment.
STORAGE: Store in a cool, dry, well-ventilated area in tightly closed containers. Keep away from heat and ignition sources.
DISPOSAL: Dispose according to federal, state and local regulations.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Provide general and/or local exhaust to maintain airborne concentrations below exposure limits.
PERSONAL PROTECTIVE EQUIPMENT: Wear safety glasses or goggles and chemically resistant gloves (e.g., nitrile rubber)
RESPIRATORY PROTECTION: If ventilation is not sufficient to keep air concentrations under exposure limits, use respiratory protection.

9. Physical Characteristics

APPEARANCE: Clear colorless or green liquid
ODOR: Alcohol odor
SOLUBILITY IN WATER: Soluble
VAPOR DENSITY: ~2 (air = 1)
VAPOR PRESS.: < 33 mm Hg @ 68°F
EVAP. RATE: <2.3 (butyl acetate =1)
SPECIFIC GRAVITY: 0.95 @ 70°F
BOILING POINT: Not applicable

10. Stability and Reactivity

CONDITIONS TO AVOID: Ignition sources, open flames, and temperatures >110 °F.
INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and other potentially hazardous compounds.

11. Regulatory and Other Information

COMMUNITY RIGHT-TO-KNOW: This product does not contain any compounds above *de minimis* reporting levels subject to SARA Section 313 reporting requirements.
DISPOSAL: Upon disposal, this material is a RCRA hazardous waste (per 40 CFR 261; ignitable D001). Dispose of in accordance with federal, state and local regulations.
TRANSPORTATION: UN1219, Isopropanol Solution, 3, PG II
EMERGENCY SHIPPING INFORMATION: Call CHEMTREC, 800/424-9300.
HMIS RATING: Health-1, Flammability-3, Reactivity-0
MSDS REVISION INDICATOR: Minor format changes and updated ACGIH exposure limits in Sect. 2.
DISCLAIMER: The information contained herein is considered accurate; however, Polytek makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.