

1. Identification

Polytek Development Corp., 55 Hilton St., Easton, PA 18042, 610/559-8620

Product Name: **POLY PURGE**

Chemical Family: Tetrafluoroethane

2. Hazard(s) Identification

WARNING: Contains gas under pressure; may explode if heated.

EYE: May cause eye irritation.

SKIN: Exposure may cause freezing or irritation and/or redness.

INGESTION: No evidence of harmful effects. Not an expected route of exposure.

INHALATION: Breathing small amounts during normal handling is not likely to cause harmful effects. Inhalation of concentrations exceeding 1000 ppm may cause temporary central nervous system depression with anesthetic effects such as dizziness, headache, loss of coordination, and loss of consciousness.

CARCINOGENICITY: Not designated as a carcinogen by NTP, IARC, or OSHA.

CHRONIC EFFECTS: None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Individuals with preexisting diseases of the central nervous or cardiovascular systems may have increased susceptibility to the toxicity of excessive exposures.



3. Composition/Information on Ingredients

Ingredient	CAS #	%	Hazard Classification
Tetrafluoroethane (R134A)	811-97-2	100	Liquefied Gas

4. First-Aid Measures

EYE CONTACT: Flush with water for 15 minutes. Seek medical attention.

SKIN CONTACT: Wash with soap and warm water. Treat for frostbite if necessary.

INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Seek medical attention if symptoms persist.

INGESTION: Not an expected route of exposure.

NOTE TO PHYSICIAN: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should only be used in situations of emergency life support.

5. Fire-Fighting Measures

AEROSOL FLAME PROJECTION TEST: Non-flammable aerosol (ASTM D-3095-94)

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, or foam. Use water to cool containers.

HAZARDOUS COMBUSTION PRODUCTS: Possibly hydrofluoric acid, carbonyl fluoride, and unidentified toxic and irritating compounds.

OTHER INFORMATION: Containers may rupture under fire conditions. Firefighters wear full protective gear and SCBA.

6. Accidental Release Measures

Avoid breathing vapors. Evacuate area until vapors have dispersed. Remove sources of ignition.

7. Handling and Storage

HANDLING: Avoid breathing vapors and avoid contact with eyes and skin. Use in adequately ventilated area. Do not eat, drink or smoke in work area. Wash hands after handling.

STORAGE: Store indoors. Do not exceed 120°F. Contents under pressure. Do not puncture or incinerate.

8. Exposure Controls/Personal Protection

EXPOSURE LIMITS: No OSHA or ACGIH limits. Manufacturer recommends 1000 ppm.

ENGINEERING CONTROLS: General and/or local exhaust to minimize airborne concentrations.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses are recommended.

RESPIRATORY PROTECTION: None required in well-ventilated areas.

9. Physical and Chemical Properties

APPEARANCE: Colorless gas in aerosol can

VAPOR PRESSURE: 81 psig @ 77 °F

ODOR: Slight ethereal

VAPOR DENSITY: 3.60 (Air = 1)

PH: Not applicable

SOLUBILITY IN WATER: 0-1%

BOILING POINT: -15 °F

SPECIFIC GRAVITY: 1.2 @ 77°F

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid open flames and high temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Alkali or alkaline earth metals (powdered Zn, Be, etc.)

HAZARDOUS DECOMPOSITION PRODUCTS: Possibly hydrofluoric acid, carbonyl fluoride, and unidentified toxic and irritating compounds.

11. Regulatory and Other Information

COMMUNITY RIGHT-TO-KNOW: This product does not contain any compounds above the *de minimis* reporting levels subject to SARA Section 313 reporting requirements.

DISPOSAL: Upon disposal, the pressurized aerosol can be hazardous waste under 40 CFR 261. Dispose of in accordance with state and local regulations.

TRANSPORT: By Ground, ORM-D until Dec. 31, 2013. UN 1950, Aerosol, nonflammable, n.o.s., 2.2. LTD QTY

EMERGENCY SHIPPING INFORMATION: Call CHEMTREC, 800/424-9300.

REVISION INDICATOR: Changes in format and content to comply with revised 29 CFR 1010.1200.

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.