

MATERIAL SAFETY DATA SHEET

1. American Polywater Corporation

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**Product Name: KC™ Contact Cleaner
Aerosol (KC-4, KC-16)**

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Reviewed By: S. H. Dahlke

Emergency Number: 1-651-430-2270

2. HAZARDOUS INGREDIENTS

<u>Components*</u>	<u>CAS #</u>	<u>Weight %</u>	<u>ACGIH TLV</u>	<u>OSHA TWA</u>	<u>STEL (short term)</u>
Proprietary Blend		70 - 80	NE**	NE**	1,000 ppm (15 minute)
1,1,1,2 Tetrafluoroethane	811-97-2	20 - 30	5,000 ppm	10,000 ppm	

*All components are TSCA listed.

** NE = Not Established. Manufacturer recommends 50 ppm for 8 hour exposure.

Components listed as proprietary are considered trade secret in accordance with the OSHA Hazard and Communication Standard (29 CFR 1910.1200). Identity of proprietary components will be made available as provided in this standard.

3. HAZARDS IDENTIFICATION

Emergency Overview

Non-flammable aerosol solvent blend.

Keep away from fire and flame. Use with adequate ventilation. Do not ingest. Avoid contact with skin. In case of eye contact, flush eyes with water. Keep out of reach of children.

Eye Contact: Direct eye contact with vapors or aerosols may cause eye irritation. This irritation is minimal and expected transient.

Skin Contact: This product has low skin irritation potential. Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

Inhalation (Breathing): Solvent vapors from this product are expected to have a low hazard. Above the boiling point, small amounts of toxic decomposition products may form, including hydrogen fluoride (ACGIH TLV = 3 ppm) and perfluoroisobutylene (ACGIH TLV = 0.01 ppm).

Ingestion (Swallowing): Content is an aspiration hazard. Material has low level of oral toxicity.

Carcinogenic Status: This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA, nor have any of its components.

4. FIRST AID

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): Do not induce vomiting or give anything by mouth. Petroleum content can be aspirated into lungs and cause aspiration pneumonia. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

5. FIRE AND EXPLOSION HAZARD**Flash Point:** None to IBP (Seta Flash CC)**Flammable Limits:** NA**Extinguishing Media:** Not flammable. Cool fire-exposed containers with water fog.**Special Procedures:** Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Disperse gas vapors with water spray.**Unusual Hazards:** At high temperatures, toxic decomposition products may form.**6. ACCIDENTAL RELEASE MEASURES**

For small spills, absorb with sand or absorbents. For large spills, stay upwind and away from spill. Keep all sources of ignition away from spill. If spill is indoors, ventilate area of spill. Foam, especially high expansion foam, may be used to suppress vapors. Keep out of drains, sewers or waterways. Use sand or other inert material to dam and contain spill. Do not flush area with water.

7. HANDLING AND STORAGE

Do not smoke while handling this material. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. Do not expose container to direct sunlight or temperatures above 120 °F. Do not transport or store near heat sources. Keep containers cool, dry, and away from sources of ignition. Do not puncture or incinerate container. Use and store this product with adequate ventilation. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. CONTROL MEASURES**Respiratory Protection:** Normal ventilation is generally adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH approved) or use supplied air equipment.**Protective Gloves:** For repeated or prolonged skin contact, the use of impermeable gloves (i.e. PVA or neoprene) is recommended to prevent drying and possible irritation.**Eye Protection:** Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.**Other Protective Equipment:** It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.**9. PHYSICAL DATA****Appearance:** Clear, colorless liquid with slight ethereal odor.**Vapor Pressure:** 1551 mm Hg for aerosol (30 psig)**Specific Gravity (H₂O = 1):** 1.3**Percent Volatiles (Weight):** 100%**Volatile Organic Compounds (VOC):** none**Boiling Point:** 90 °F (32 °C) Initial**Vapor Density (Air = 1):** >1**Solubility in Water:** Negligible**Evaporation Rate:** > 1 (n-butyl acetate = 1)**Ozone Depletion Potential (ODP):** <0.03**10. REACTIVITY DATA****Stability:** Stable**Incompatibility:** Finely divided active metals, alkali and alkaline earth metals. Oxidizing agents and strong acids (or bases).**Hazardous Polymerization:** Will not occur.**11. HAZARDOUS DECOMPOSITION PRODUCTS & HEALTH HAZARD/TOXICOLOGICAL INFORMATION**

Refer to Section 3 for available information on potential health effects.

12. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, county, state, and federal regulations.

13. TRANSPORTATION**DOT Hazard Class:** Consumer Commodity, ORM-D**DOT Shipping Name:** Consumer Commodity

14. REGULATORY STATUS

Canada WHMIS Class: NC

Hazard Categories for SARA	Acute	Chronic	Fire	Pressure	Reactive
Section 311/312 Reporting	No	No	No	No	No

<u>Components</u>	<u>CERCLA/SARA Sec. 302</u>		<u>SARA Sec. 313</u>
	<u>Hazardous Substance</u>	<u>RQ</u>	<u>Toxic Release</u>
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (CAS# 507-55-1)	No		Yes (1%)
3,3-Dichloro-1,1,2,2,3-pentafluoropropane (CAS# 422-56-0)	No		Yes (1%)

Disclaimer: The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.