

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

### Supplier/Manufacturer:

#### American Polywater Corporation

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**Emergency Number:** +1-651-430-2270

**Product Name: QC™  
Fiber Cleaner**

**Chemical Description:** Non-flammable solvent blend

**Product Use:** Cleaning Preparation

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt</u>
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0	207-016-9	< 50%
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1	208-076-9	< 60%

## 3. HAZARDS IDENTIFICATION

### Emergency Overview:

Keep away from fire and flame. Use with adequate ventilation. Do not ingest. May cause skin irritation. 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 splashes may cause eye irritation.

### Skin Contact:

This product has 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.

### Irritation and Sensitization Potential:

Product may be irritating to skin and eyes. It is not a sensitizer.

### Inhalation (Breathing):

Prolonged exposure to excessively high vapor concentrations may cause unconsciousness, adverse liver effects, adverse heart effects and death.

### Ingestion (Swallowing):

Material has a low level of oral toxicity.

## 4. FIRST AID MEASURES

### 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.

<b>Skin Contact:</b>	Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.
<b>Inhalation (Breathing):</b>	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.
<b>Ingestion (Swallowing):</b>	Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

## 5. FIRE-FIGHTING MEASURES

<b>Flash Point:</b>	None
<b>Flammable Limits:</b>	Not Available
<b>Autoignition Temperature:</b>	Not Available
<b>Hazardous Decomposition and By-Products:</b>	Decomposition products may include hydrogen fluoride, hydrogen chloride, and carbonyl halides.
<b>Extinguishing Media:</b>	Water Spray, Water Fog, Carbon Dioxide, Dry Chemical or Foam.
<b>Special Precautions:</b>	Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus in fire conditions. Use water spray to cool containers.
<b>Unusual Hazards:</b>	At high temperatures, toxic decomposition products may form. Containers may rupture.

## 6. ACCIDENTAL RELEASE MEASURES

Keep out of drains, sewers or waterways. Ventilate area. Absorb with sand or absorbent material; for large spills, stay upwind and away from spill. Use sand or other inert material to dam and contain spill. Do not flush area with water.

## 7. HANDLING AND STORAGE

Do not expose container to direct sunlight or temperatures above 86° F (30° C). Do not transport or store near heat sources. Keep containers cool, dry, and away from sources of ignition. Do not smoke while handling this material. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. 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. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Respiratory Protection:</b>	Normal ventilation is 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.
<b>Protective Gloves:</b>	For repeated or prolonged skin contact, the use of impermeable gloves 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:** None known.

**Exposure Limits and Recommendations:**

<u>Chemical Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
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100 ppm TLV is suggested by the manufacturer for QC™ Fiber Cleaner. TLV values for components have not been determined by OSHA/ACGIH.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear, colorless liquid.

**Odor Threshold:** Not Available

**Vapor Density (Air = 1):** 7.0 (Air = 1)

**Specific Gravity (H<sub>2</sub>O = 1):** 1.49

**Solubility in Water:** 0.053g/100g H<sub>2</sub>O

**Boiling Point:** 129°F / 54 °C (initial)

**Freezing Point:** -204 °F / -131 °C

**Evaporation Rate:** 0.9 (Diethyl ether = 1)

**Vapor Pressure:** 0.038 MPa @ 25 °C

**Coefficient of Water/Oil Distribution:** 3.13 – 3.17

**pH:** Not Applicable

**Volatiles (Weight %):** 100%

**VOC Content:** Exempt

**10. STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** Avoid heat, flame, sources of ignition.

**Materials to Avoid:** Strong oxidizing agents.

**Hazardous Decomposition and By-Products:**

Above the boiling point, small amounts of toxic decomposition products may form, including hydrogen fluoride, hydrogen chloride, and carbonyl halides.

**11. TOXICOLOGICAL INFORMATION**

<b>Toxicity to Animals:</b>	3,3-Dichloro-1,1,1,2,2-pentafluoropropane	LD <sub>50</sub> (oral rat) >5000 mg/kg	
		LD <sub>50</sub> (dermal rabbit) >2000 mg/kg	
	1,3-Dichloro-1,1,2,2,3-pentafluoropropane	LD <sub>50</sub> (oral rat) >5000 mg/kg	
		LD <sub>50</sub> (dermal rabbit) >2000 mg/kg	
<b>Chronic Exposure:</b>	Not Available		
<b>Carcinogenic Status:</b>	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.		
<b>Reproductive Toxicity:</b>	Not Available		
<b>Mutagenicity:</b>	Not Available		
<b>Teratogenicity:</b>	Not Available		
<b>Toxicologically Synergistic Products:</b>	Not Available		

**12. ECOLOGICAL INFORMATION**

<b>Mobility:</b>	No information available.		
<b>Biodegradability:</b>	3,3-Dichloro-1,1,1,2,2-pentafluoropropane:	3%	
	1,3-Dichloro-1,1,2,2,3-pentafluoropropane:	7%	
<b>Bioaccumulation:</b>	Bioconcentration factor < 64/6 weeks (3,3-Dichloro-1,1,1,2,2-pentafluoropropane)		
<b>Ecotoxicity:</b>	No information available.		
<b>Aquatic Toxicity:</b>	3,3-Dichloro-1,1,1,2,2-pentafluoropropane	48 h LC <sub>50</sub> Oryzias latipes	83.5 mg/l
<b>Ozone Depletion Potential:</b>	< 0.035		

**13. DISPOSAL CONSIDERATIONS**

Dispose of product in accordance with National and Local Regulations.

**14. TRANSPORTATION INFORMATION**

<b>UN Number:</b>	Not Listed
<b>UN Proper Shipping Name:</b>	Not Applicable
<b>Class and Subsidiary Risk:</b>	Not Applicable
<b>Packing Group:</b>	Not Applicable
<b>TDG:</b>	Not Regulated



**16. OTHER INFORMATION**

<b>NFPA Ratings:</b>	Health:	2
	Fire:	0
	Reactivity:	0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

**Revision Date:** May 13, 2010

**Revision Number:** 1

**Reviewed By:** S. H. Dahlke

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.

QC:MSDS