

BACHARACH, INC.
MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet has been prepared to comply with the EC Directive, Canadian WHMIS and OSHA Hazard Communication Regulations.

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION
AND THE COMPANY/UNDERTAKING**

Bacharach, Inc.
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New Kensington, PA 15068

Emergency Phone: (800) 424-9300 (Chemtrec)
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Product Name: Fluid, Manometer (Fluorolube FS-5 Blue)

Product Number: 17-0025

MSDS Number: 99-0003

Revision Number: 8

Product Use: Instrument Fluid

MSDS Date of Preparation/Revision: 11/30/09

SECTION 2: COMPOSITION/ INFORMATION INGREDIENTS

Chemical Name	CAS# / EINECS#	%	EU Classification (67/548/EEC)
Chlorotrifluoroethylene Polymer	9002-83-9	>99.9	Not Applicable
Anthraquinone Dye (Solvent Blue 36)	14233-37-5 / 238-101-9	<0.1	Not Applicable

See Section 16 for further information on EU Classification.

SECTION 3: HAZARDS IDENTIFICATION

Clear blue fluid, no odor.

Emergency Overview: May cause mild eye irritation. Prolonged skin contact may cause irritation.

EU Preparation Classification (1999/45/EC): Not classified as a dangerous preparation.

SECTION 4: FIRST AID

Eye Contact: Immediately flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get immediate medical attention.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use. Get medical attention if irritation develops.

Inhalation: Due to the low volatility of this material, overexposure is very unlikely. If irritation develops, remove to fresh air and get medical attention.

Ingestion: Rinse out mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: This material is non-combustible. Use any media suitable for surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear NIOSH approved positive pressure self contained breathing apparatus and full protective clothing. Cool fire exposed container with water spray.

Unusual Fire and Explosion Hazards: Chlorotrifluoroethylene Polymer decomposes and depolymerizes at temperatures above 500°F. Decomposition products are toxic and may cause eye and respiratory irritation. Avoid friction/galling which may result in localized detonation.

Hazardous Combustion Products: Decomposition yields hydrogen fluoride, hydrogen chloride, chlorotrifluoroethylene and other toxic organic fluorine compounds.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing (see Section 8). Contain spill with inert absorbent. Collect and place into an appropriate container for disposal. Prevent entry into sewers or waterways. Wash residual traces with soap and water to prevent slipping hazard. Report spill as required by local and federal regulations.

SECTION 7: HANDLING AND STORAGE

Work Practices: Avoid contact with the eyes. Avoid prolonged or repeated contact with the skin or clothing. Avoid producing and breathing mist. Do not breathe decomposition products. Keep containers tightly sealed to avoid contamination.

Special Precautions: Avoid conditions of galling or friction with aluminum or magnesium parts including container closures. Do not reuse containers. Empty containers retain product residues and may be hazardous.

Storage: Store in a cool, dry place away from incompatible substances. Keep containers tightly closed to prevent contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Chlorotrifluoroethylene Polymer	None Established
Anthraquinone Dye (Solvent Blue 36)	None Established

Ventilation: Good general room ventilation is usually adequate.

Respiratory Protection: None should be needed under normal conditions and ambient temperatures. If misted wear a NIOSH approved dust/mist respirator. For decomposition wear approved supplied air respirator.

Gloves: Wear impervious gloves such as rubber, neoprene or vinyl.

Eye Protection: Safety glasses with side shields or chemical safety goggles.

Other Protective Equipment: Protective coveralls if contact is likely to keep personal clothing clean.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear blue fluid, with no odor. There is no odor threshold data available for any of the components.

pH: N/A	Specific Gravity: 1.87-1.96 @ 100°F (chlorotrifluoroethylene polymer)
Vapor Density: Not determined	Vapor Pressure: 0.07-2.2 mm Hg @ 200°F (chlorotrifluoroethylene polymer)
Melting Point: Not determined	Boiling Point: >500°F decompose (chlorotrifluoroethylene polymer)
Solubility In Water: Insoluble	Percent Volatile: Not determined
Vapor Density: Not determined	Octanol/Water Coefficient: Not determined
VOC Content: 100%	Freezing Point: -90°F – 65°F (chlorotrifluoroethylene polymer)
Flash Point: None	Test Method: N/A
Autoignition Temperature: N/A	Flammable Limits: LEL: N/A UEL: N/A

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Do not use on aluminum or magnesium parts when heavy friction or galling can occur. Detonation can occur when Fluorolube is allowed to contact aluminum or magnesium, free of its oxide coating, in confined spaces or under heavy loads or high pressure.

Incompatibility: Reacts with sodium, potassium, amines, fluorine, and chlorine trifluoride.

Hazardous Decomposition Products: Decomposes above 500°F evolving-hydrogen fluoride, hydrogen chloride, chlorotrifluoroethylene, and other toxic organic fluorine compounds.

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Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eye Contact: May cause mild irritation.

Skin Contact: Prolonged or repeated contact may cause irritation.

Inhalation: None likely under ambient conditions. Exposure to high concentrations of mist, aerosol or vapors at elevated temperatures may cause coughing and irritation to nose, throat and respiratory passages.

Ingestion: Not expected to cause adverse effects.

Chronic Health Effects: No chronic effects are expected.

Carcinogen Status: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or EU Dangerous Substances Directive.

Medical Conditions Aggravated By Exposure: None known.

Acute Toxicity Data:

Chlorotrifluoroethylene Polymer:	LD50 oral rat: > 9,200 mg/kg LD50 dermal rabbit: > 3,700 mg/kg.
Anthraquinone Dye (Solvent Blue 36):	No data available

Irritancy Data: Not a primary irritant.

Sensitization: This material has not been tested as a whole. None of the components have been reported to cause sensitization in animals or humans.

Reproductive Toxicity: This material has not been tested as a whole. None of the components have been reported to cause reproductive toxicity in animals or humans.

Teratogenicity: This material has not been tested as a whole. None of the components have been reported to cause teratogenic effects in animals or humans.

Mutagenicity: Anthraquinone Dye has tested positive for mutagenicity in bacterial systems.

Synergistic Effects: There are no chemicals known to cause any additive adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION

The ecological effects of this product have not been evaluated.

SECTION 13: DISPOSAL

Dispose in accordance with all local, state and federal regulations.

RCRA Hazardous Waste Codes: None

SECTION 14: TRANSPORTATION DATA

Not regulated for transportation under IATA/ICAO, IMDG, US DOT, EU ADR, or Canadian TDG Regulations.

SECTION 15: OTHER REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA 311/312: Hazard Categories for SARA Section 311/312 Reporting: None

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Section 313 (40 CFR 372): None

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CERCLA Section 103 Reportable Quantity: N/A

US Toxic Substances Control Act: All of the components of this product are listed on the EPA TSCA Inventory.

STATE REGULATIONS:

California Proposition 65: This product contains the following substances known to the State of California to cause Cancer and/or Reproductive toxicity (birth defects): None

INTERNATIONAL REGULATIONS:

Australian Inventory Of Chemical Substances: All of the components in this product are listed on the AICS Inventory.

Canadian Environmental Protection Act: All of the components of this product are listed on the Canadian Domestic Substances List.

Canadian WHMIS Classification: Not a controlled product.

This product has been classified in accordance with the hazard criteria in the CPR and the MSDS contains all the information required by the CPR.

Inventory of Existing Chemical Substances in China: All the components are listed on the State Environmental Protection Administration of the Peoples Republic of China IECSC.

European Inventory of Commercial Chemical Substances: All of the components of this product are listed on the EINECS Inventory.

European Community Labeling: Not classified as a dangerous preparation.

Japan MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

New Zealand Inventory of Chemicals: All the components in this product are listed on the NZIoC.

Korean Existing Chemicals Inventory: All of the components in this product are listed on the Korean inventory.

SECTION 16: OTHER INFORMATION

NFPA Hazard Rating

HEALTH: 1

FIRE: 0

REACTIVITY: 1

EU Classes and Risk Phrases for Reference (See Sections 2 and 3): None

DATE OF PREVIOUS MSDS REVISION: 3/09/06

REVISION SUMMARY: Section 4, 8, 9, 14, 15

The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Bacharach, Inc., it is the users obligation to assure safe use of this product.