

**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: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT NAME:** FLUID, CALIBRATION

**PRODUCT NUMBER:** 67-2779

**MSDS NUMBER:** 99-0079

**REVISION NUMBER:** 5

**MSDS DATE OF PREPARATION/REVISION:** 04-07-00

**SECTION 2: COMPOSITION/ INFORMATION INGREDIENTS**

<u>Component</u>	<u>CAS#</u>	<u>Percentage</u>	<u>Exposure Limits</u>
Petroleum Distillate	8008-20-6	30-60	500 ppm PEL-TWA 100 ppm TLV-TWA

**SECTION 3: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:**

Light amber liquid with a mild odor. Combustible liquid. May cause mild eye and skin irritation. Inhalation of vapors may cause headache, dizziness and nausea.

**ACUTE HEALTH HAZARDS:**

**EYE CONTACT:** May cause mild irritation.

**SKIN CONTACT:** Prolonged or repeated contact may cause irritation, defatting and dermatitis.

**INHALATION:** Vapors or mists may cause mucous membrane irritation, pulmonary irritation, headache, dizziness, nausea, unconsciousness and asphyxiation.

**INGESTION:** May cause gastrointestinal irritation, nausea and vomiting. Aspiration during swallowing or vomiting may cause pulmonary edema which can be fatal

**CHRONIC HEALTH EFFECTS:** Prolonged or repeated skin contact may irritate hair follicles and block sebaceous glands causing rashes, oil acne or dermatitis. Reports have associated repeated and prolonged overexposure to petroleum distillates with adverse liver, kidney and bone marrow effects and with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the product may be harmful or fatal.

**CARCINOGEN STATUS:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA. Repetitive direct skin application of kerosene over a two year period resulted in skin cancer in laboratory animals. Petroleum hydrocarbons of similar composition and boiling ranges have been known to produce kidney damage and tumors in male rats following prolonged inhalation exposures.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin disorders may be aggravated by exposure to this product.

SEE SECTION 11 - TOXICOLOGICAL INFORMATION FOR ADDITIONAL DATA

**SECTION 4: FIRST AID**

**EYE CONTACT:** Flush thoroughly with copious amounts of running water for 15 minutes. Get medical attention if irritation persists.

**SKIN CONTACT:** Wash well with soap and water, remove contaminated clothing and launder before re-use. Get medical attention if irritation develops.

**INHALATION:** Remove victim to fresh air, give artificial respiration if needed. Get medical attention.

**INGESTION:** Do not give anything by mouth to anyone who is unconscious or convulsing. Give water or milk to drink. Do not induce vomiting. Get immediate medical attention.

**SECTION 5: FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 167° F                      **TEST METHOD:** TCC

**AUTOIGNITION TEMPERATURE:** N/AV

**FLAMMABLE LIMITS:**              **LEL:** 1%                      **UEL:** 6%

**EXTINGUISHING MEDIA:** Use water fog, foam, carbon dioxide or dry chemical.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should wear NIOSH approved positive pressure self contained breathing apparatus and full protective clothing. Treat as an oil fire. Cool fire exposed containers with water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors are heavier than air and may travel along the ground to an ignition source and flash back. Mists or sprays may be flammable at temperatures below the flash point.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide, various hydrocarbons, etc.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Ventilate area. Remove all sources of ignition. Contain spill and collect with an inert absorbent. Wash residual traces with soap and water to prevent slipping hazard. Notify authorities as required.

**SECTION 7: HANDLING AND STORAGE**

**WORK PRACTICES:** Avoid contact with the eyes, skin or clothing. Avoid breathing mists or vapors. Wash hands with soap and water after handling. Do not eat, drink or smoke in the work area. Keep containers closed and away from excessive heat and ignition sources.

**SPECIAL PRECAUTIONS:** Empty containers retain residues and may be hazardous. Do not pressurize, drill, grind or expose containers to heat, flames, sparks or other sources of ignition. They may explode and cause injury.

**STORAGE:** Store in a cool, dry place away from oxidizers, excessive heat and sources of ignition.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**VENTILATION:** General or local exhaust as needed to maintain concentration below the TLV. Use explosion-proof equipment where needed.

**RESPIRATORY PROTECTION:** None should be needed under normal conditions and ambient temperatures. If needed wear NIOSH approved organic vapor respirator with dust/mist pre-filter or supplied air respirator. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

**GLOVES:** Oil impervious such as neoprene or nitrile.

**EYE PROTECTION:** Safety glasses with side shields or chemical safety goggles.

**OTHER PROTECTIVE EQUIPMENT:** Protective coveralls or apron if contact is likely to keep personal clothing clean. An eye wash facility should be available in the work area.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Light amber liquid with mild odor. There is no odor threshold data available for any of the components.

**pH:** N/A

**BOILING POINT:** 302-520°F

**MELTING POINT:** N/A

**SOLUBILITY IN WATER:** Insoluble

**COEFFICIENT WATER/OIL:** N/D

**SPECIFIC GRAVITY:** 0.82368

**VAPOR PRESSURE:** <1 mm Hg @ 68°F

**VAPOR DENSITY:** >1 (air =1)

**PERCENT VOLATILE:** 60%

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Avoid heat and sources of ignition sources.

**INCOMPATIBILITY:** Avoid strong oxidizers such as chlorine and oxygen, strong acids or bases, amines.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion produces carbon monoxide, carbon dioxide and hydrocarbons.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Not applicable.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY DATA:** Kerosene: Oral rat LD50: >5 g/kg  
Inhalation rat LC50: >5 gm/m<sup>3</sup>/4 hr

**IRRITANCY DATA:** Not a primary irritant.

**SENSITIZATION:** This material has not been reported to cause sensitization in animals or humans.

**REPRODUCTIVE TOXICITY:** Some petroleum distillates have been found to cause adverse reproductive effects in laboratory animals.

**TERATOGENICITY:** This material has not been reported to cause teratogenic effects in humans or laboratory animals.

**MUTAGENICITY:** Kerosene products have been positive in mutagenic test 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**

**US DOT SHIPPING NAME:** Exempted from Hazmat for Non-bulk Packaging (see Combustible Liquid Exemption 47 CFR 173.150 (f))

**DOT LABELS REQUIRED:** None

**EMERGENCY RESPONSE GUIDE NUMBER:** None

**IATA SHIPPING NAME:** Not Regulated

**IATA LABELS REQUIRED:** N/A

**SECTION 15: OTHER REGULATORY INFORMATION**

**SARA 311/312:** Hazard Categories for SARA Section 311/312 Reporting: Acute health, Fire hazard.

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

**CERCLA SECTION 103 REPORTABLE QUANTITY:** This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills as required under federal, state and local regulations.

**CALIFORNIA PROPOSITION 65:** This product contains the following substances known to the State of California to cause Cancer and/or Reproductive Harm: None.

**US TOXIC SUBSTANCES CONTROL ACT:** All of the components of this product are listed on the EPA TSCA Inventory.

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All of the components of this product are listed on the Canadian Domestic Substances List.

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.

**CANADIAN WHMIS CLASSIFICATION:** Class B-3 (Combustible Liquid); Class D - Division 2B (Toxic material causing other chronic effects)

**EUROPEAN COMMUNITY LABELING CLASSIFICATION:** Harmful (Xn)

**EUROPEAN COMMUNITY RISK AND SAFETY PHRASES:** R65, S62

**SECTION 16: OTHER INFORMATION**

**NFPA HAZARD RATING:**      **HEALTH:** 1                      **FIRE:** 2                      **REACTIVITY:** 0

**DATE OF LATEST MSDS REVISION:** 03-13-97

**REVISION SUMMARY:** Format update, Section 2, 3, 5, 6, 9, 11, 14, 15, 16

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.