

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

BACHARACH, INC.
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PRODUCT NAME: HYDROSTATIC TRANSMISSION FLUID

PRODUCT NUMBER: 0082-062778

MSDS NUMBER: 99-0082

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>
Hydrotreated Paraffinic Distillates	64742-54-7 64742-55-8 64741-88-4	70-95	5 mg/m3 PEL-TWA (as oil mist) 5 mg/m3 TLV-TWA (as oil mist)
Hydrotreated or Solvent-refined Naphthenic Distillates	64742-53-6 64741-97-5	1-10	5 mg/m3 PEL-TWA (as oil mist) 5 mg/m3 TLV-TWA (as oil mist)
Hydrotreated residual Oil	64742-57-0	1-10	5 mg/m3 PEL-TWA (as oil mist) 5 mg/m3 PEL-TWA (as oil mist)
Polymethacrylate	50867-55-5	1-3	None Established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Red liquid with a mild petroleum odor. May cause irritation to the eyes and skin. High vapor concentrations may cause respiratory irritation and central nervous system effects. Aspiration may cause lung injury.

ACUTE HEALTH HAZARDS:

EYE CONTACT: May cause minimal irritation.

SKIN CONTACT: May cause slight irritation. Prolonged or repeated contact may cause irritation, redness and swelling.

INHALATION: Hazard is negligible unless heated to produce vapors or misted. Vapors or mists may cause mucous membrane irritation, pulmonary irritation, headache, drowsiness and nausea. When overheated, this product may release hydrogen sulfide gas. The release of hydrogen sulfide gas in various concentrations may cause irritation of the eyes and respiratory tract, headache, dizziness, nausea and drowsiness. Exposure to high concentrations of hydrogen sulfide may be fatal.

INGESTION: No adverse effect is expected. Swallowing more than a few mouthfuls may cause gastrointestinal irritation, nausea and diarrhea. Aspiration during swallowing or vomiting may cause lung damage.

CHRONIC HEALTH EFFECTS: Prolonged or repeated skin contact may irritate hair follicles and block sebaceous glands causing rashes, oil acne or dermatitis.

CARCINOGEN STATUS: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin conditions may be aggravated.

SEE SECTION 11 - TOXICOLOGICAL INFORMATION FOR ADDITIONAL DATA

SECTION 4: FIRST AID

EYE CONTACT: Flush thoroughly with copious amounts of running water for several minutes. Get medical attention if irritation develops.

SKIN CONTACT: Wash well 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: If more than several mouthfuls have been swallowed, give two glasses of water (16 oz.). Get medical attention.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 390°F **TEST METHOD:** COC

AUTOIGNITION TEMPERATURE: Not determined

FLAMMABLE LIMITS: **LEL:** Not determined **UEL:** Not determined

EXTINGUISHING MEDIA: Use water spray, foam, carbon dioxide or dry chemical. Cool exposed containers with water.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear NIOSH approved positive pressure self contained breathing apparatus and full protective clothing. Water or foam may cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Heating may produce hydrogen sulfide and other toxic vapors.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes, ketones and combustion products or compounds of sulfur, zinc and phosphorous.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate area. Avoid breathing vapor. Contain spill and collect with absorbent. Keep out of sewers and waterways. Avoid contact with the eyes, skin and clothing. 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 thoroughly with soap and water after handling. Do not eat, drink or smoke in the work area. Avoid over heating. Minimum handling temperatures should be maintained. If product is overheated, hazardous concentrations of hydrogen sulfide gas may be released. When opening large containers of this product, keep your face away from the opening and avoid breathing gases and vapors. Odor cannot be relied upon for warning of hazardous hydrogen sulfide as this gas quickly fatigues the sense of smell.

SPECIAL PRECAUTIONS: Keep containers closed and away from excessive heat and sources of ignition. Empty containers retain residues and may be hazardous. Follow all recommended precautions in handling empty containers.

STORAGE: Store in a cool, dry place away from oxidizers, excessive heat and extended storage periods. Water contamination should be avoided.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: General or local exhaust as needed to maintain concentrations below the exposure limits.

RESPIRATORY PROTECTION: None should be needed under normal conditions and ambient temperatures. For operations where the TLV may be exceeded, a NIOSH/MSHA approved supplied air respirator is recommended. Gas masks or other air purifying respirators cannot be used for hydrogen sulfide due to its poor odor warning properties. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

GLOVES: Oil impervious such as neoprene or nitrile if needed. Workers should wash exposed skin several times per day.

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. Soiled work clothing should be laundered or dry cleaned at least weekly.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Red liquid with a mild petroleum odor. There is no odor threshold data available for any of the components.

pH: N/A

BOILING POINT: Not determined

MELTING POINT: Not available

SOLUBILITY IN WATER: Not determined

COEFFICIENT WATER/OIL: Not available

SPECIFIC GRAVITY: 0.0.8654-0.8789

VAPOR PRESSURE: Not determined

VAPOR DENSITY: Not determined

PERCENT VOLATILE: Negligible

VISCOSITY: 35-3-40.1 cSt

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable.

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

INCOMPATIBILITY: Avoid strong oxidizers such as chlorine and oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion produces carbon monoxide and carbon dioxide along aldehydes, ketones and combustion products or compounds of zinc, sulfur and phosphorus. Heating can produce hydrogen sulfide and other toxic vapors.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Not applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA: Product: LD50 oral rat: >5 g/kg
LD50 skin rabbit: >2 g/kg

IRRITANCY DATA: Not a primary irritant.

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

REPRODUCTIVE TOXICITY: This material has not been reported to cause reproductive toxicity in animals or humans.

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

MUTAGENICITY: No mutagenic data is available for this product.

SYNERGISTIC EFFECTS: Some low viscosity naphthenic oils have caused skin irritation and skin tumors in laboratory animals when repeatedly applied and left in place between applications. The significance of these effects to humans has not been established.

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: NOT REGULATED

DOT LABELS REQUIRED: N/A

EMERGENCY RESPONSE GUIDE NUMBER: N/A

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: N/A

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 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 Reproductive Harm: None known

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.

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES: All of the components of this product are listed on the AICS Inventory.

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.

EUROPEAN COMMUNITY LABELING CLASSIFICATION: N/A

EUROPEAN COMMUNITY RISK AND SAFETY PHRASES: None

SECTION 16: OTHER INFORMATION

NFPA HAZARD RATING:

HEALTH: 1

FIRE: 1

REACTIVITY: 0

DATE OF LATEST MSDS REVISION: 03-14-97

REVISION SUMMARY: Format Update, Sections 2, 3, 5, 6, 7, 8, 9, 10, 11, 15 and 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.