



Material Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: SPECTRO™ Foam Filter Fluid

Manufacturer:
Intercontinental Lubricants Corp./
Spectro Oils of America
 993 Federal Road
 Brookfield, CT 06804
 (203) 775-1291 Fax: (203) 775-8720

MSDS Date of Preparation: 8/24/98

SECTION 2 PRODUCT COMPONENTS

| INGREDIENTS | CAS#. | WT.% | EXPOSURE LIMITS |
|--|--|--------|---|
| Petroleum Oils | 64742-54-7 64742-65-0 64741-88-4 64742-52-5 | 50-70% | 5 mg/m3 TWA (OSHA/ACGIH) |
| Perchloroethylene (Tetrachloroethylene) | 127-18-4 | 30-40% | 25 ppm TWA (ACGIH) 100 ppm TWA (ACGIH STEL) 100 ppm TWA (OSHA) 200 ppm TWA Ceiling (OSHA STEL) |
| Non-hazardous Additives | Proprietary | 1-5% | None Established |

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a blue liquid with an ethereal odor. May cause eye and skin irritation. Inhalation of vapors may cause headache, dizziness or drowsiness. High concentrations may be fatal. Accidental ingestion may cause gastrointestinal and central nervous system effects and possible liver and kidney damage. Aspiration into the lungs during ingestion or vomiting may cause lung damage. Prolonged or repeated contact may cause damage to the central nervous system, kidney or liver. Perchloroethylene is a suspected carcinogen.

HEALTH HAZARDS:

INHALATION: Inhalation of vapors or mists may cause upper respiratory tract irritation and central nervous system effects including headache, dizziness, drowsiness, loss of coordination and unconsciousness. High vapor concentrations may cause liver toxicity. Deliberate concentration and inhalation of vapors may be harmful or fatal.

SKIN CONTACT: Prolonged or repeated contact may cause irritation or defatting of the skin.

EYE CONTACT: May cause mild irritation.

INGESTION: Swallowing large amounts may cause gastrointestinal and central nervous system effects including nausea, headache, drowsiness, inebriation and liver and kidney damage. Aspiration into the lungs during ingestion or vomiting may cause lipid pneumonia.

CHRONIC EFFECTS OF OVEREXPOSURE: Prolonged or repeated skin contact may cause dermatitis. Prolonged exposure to perchloroethylene may cause central nervous system, liver and kidney damage.

SECTION 3: HAZARDS IDENTIFICATION (continued)

CARCINOGENICITY: Perchloroethylene is listed as a suspected carcinogen by IARC and NTP.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with chronic skin and central nervous system diseases may be at increased risk from exposure to this material.

SECTION 4 EMERGENCY and FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eye with water for at least 15 minutes while lifting the upper and lower lids. Get immediate medical attention.

SKIN CONTACT: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops.

INHALATION: Remove victim to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.

INGESTION: Do not induce vomiting. Rinse mouth out with a small amount of water. Get immediate medical attention by calling a Poison Control Center or hospital emergency department.

SECTION 5 FIRE and EXPLOSION HAZARD DATA

FLASH POINT: Non-flammable

METHOD: COC

FLAMMABLE LIMITS: (vol % in air) LEL: 1% UEL: 6%

AUTOIGNITION TEMPERATURE: Not established

EXTINGUISHING MEDIA: Water spray or fog, foam, carbon dioxide, dry chemical.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water spray or stream.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic decomposition products may be formed when heated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate protective equipment. Dike spill and collect into closable containers for disposal with an inert absorbent. Prevent entry in storm sewers and waterways. Report spill as required by local and federal regulations.

SECTION 7 HANDLING and STORAGE

Avoid eye and skin contact. Avoid breathing vapors and mists. Use only with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and launder before re-use. Discard contaminate shoes and other items than cannot be laundered.

Protect containers from physical damage. Store in a cool area away from oxidizers. Empty containers retain product residues. Do not cut, weld, braze, etc. on or near empty containers. Follow all MSDS precautions in handling empty containers.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

RESPIRATORY PROTECTION: None needed under normal use conditions with adequate ventilation. If the TLV is exceeded, a NIOSH approved supplied air respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION (continued)

VENTILATION: Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

GLOVES: Butyl rubber, neoprene or other impervious gloves are recommended where skin contact is likely.

EYE PROTECTION: Safety glasses or goggles recommended.

OTHER PROTECTIVE EQUIPMENT: Impervious apron, boots and other clothing are recommended if needed to skin contact. Suitable washing facilities should be available.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT (@ 760 mmHg): 250° F

SPECIFIC GRAVITY (H₂O=1): 1.6

VAPOR PRESSURE (@ 20 C mm Hg): 14.2

EVAPORATION RATE : 0.9

APPEARANCE AND ODOR: Blue liquid, ethereal odor.

MELTING POINT: Not available

VOLATILE: 43%

(VAPOR DENSITY (AIR=1): Greater than 5

COEFFICIENT OF WATER/OIL: Not available

SECTION 10 STABILITY and REACTIVITY

STABILITY: This material is stable.

CONDITIONS TO AVOID: Avoid excessive heat, sparks, flames and ultraviolet light.

INCOMPATIBILITY: Strong oxidizing agents, chemically active metals, strong acids, bases and amines.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon monoxide, sulfur oxides, hydrogen chloride, phosgene and chlorine compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY VALUES: Perchloroethylene: Oral rat LD50 13,000 mg/kg
Inhalation rat LC50 4,000 ppm/4 hour

Perchloroethylene is listed as a suspect carcinogen by NTP and IARC.

None of the components have been found to be mutagenic.

None of the components are known to cause sensitization in animals or humans.

None of the components are known to cause adverse reproductive effects or teratogenic effects in animals or humans.

SECTION 12: ECOLOGICAL INFORMATION

There is no ecotoxicity data available for this product at this time.

SECTION 13: DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: This product may be a hazardous waste when disposed (U210, D039, F002)
Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT SHIPPING DESCRIPTION : Consumer Commodity, ORM-D

DOT HAZARD CLASSIFICATION: ORM-D

DOT LABELS REQUIRED (49CFR172.101): None (Packages must be marked Consumer Commodity, ORM-D)

UN NUMBER: None (Note: Consumer Commodity packages must not exceed 30 kg. gross weight)

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD CLASSIFICATION: Irritant, toxic, target organ effects, carcinogen.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 HAZARD CLASSIFICATION: Acute health, chronic health

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:
Perchloroethylene 30-40%

CERCLA Hazardous Substances (Section 103)/RQ: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Perchloroethylene (40% maximum) of 100 lbs, is 250 lbs. 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.

WHMIS CLASSIFICATION: Group D2 Subdivision A: Very toxic material causing other toxic effects.

EU CLASSIFICATION: Harmful (Xn), Dangerous For The Environment (N)

EU RISK AND SAFETY PHRASES: R40, R51/53, S2, S36/37, S46, S56

TOXIC SUBSTANCES CONTROL ACT: All of the components of this product are listed on the TSCA inventory.

CALIFORNIA PROPOSITION 65: This product contains perchloroethylene, which is known to the State of California to cause cancer.

Canada: All of the components of this product are listed on the Canadian Domestic Substances List (DSL).

EEC EINECS: All of the ingredients are listed on the EINECS inventory.

Australia: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances.

SECTION 16: OTHER INFORMATION

NFPA Rating: Health: 2 Fire: 1 Reactivity: 0