



Material Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: SPECTRO™ 4
5w30, 10w40, 20w40, 20w50

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: 8/26/98

SECTION 2 PRODUCT COMPONENTS

<u>INGREDIENTS</u>	<u>CAS#.</u>	<u>WT.%</u>	<u>EXPOSURE LIMITS</u>
Petroleum Oils	64742-54-7 64742-65-0 64742-57-0 64742-62-7 64741-88-4	60-80	5 mg/m3 TWA (OSHA/ACGIH)
Zinc Dialkyl dithiophosphate	68457-79-4	1-5	None Established
Non-Hazardous Additives	Proprietary	5-15	None Established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is an amber colored liquid with a mild petroleum odor. Slight fire hazard (Flash Point 320-395°F). May cause mild eye and skin contact. Accidental ingestion may cause gastrointestinal effects with nausea and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause lung damage. Prolonged or repeated skin contact with used motor oil may cause skin cancer.

HEALTH HAZARDS:

INHALATION: Excessive inhalation of vapors or mists may cause upper respiratory tract irritation and central nervous system effects including headache, dizziness and nausea. Breathing high concentrations of oil mists may cause lipid pneumonia.

SKIN CONTACT: Prolonged or repeated contact may cause mild irritation or dryness.

EYE CONTACT: May cause mild irritation.

INGESTION: Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause lipid pneumonia.

CHRONIC EFFECTS OF OVEREXPOSURE: Repeated skin contact may cause dermatitis. Used motor oils have been found to cause skin cancer in skin painting studies with laboratory animals.

CARCINOGENICITY: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with chronic skin 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 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 medical attention.

INGESTION: Do not induce vomiting. Get immediate medical attention by calling a Poison Control Center or hospital emergency department.

SECTION 5 FIRE and EXPLOSION HAZARD DATA

FLASH POINT: 5w30: 320°F/160°C 10w40: 390°F/199°C 20w40: 390°F/199°C 20w50: 395°F/201°C

METHOD: COC

FLAMMABLE LIMITS: (vol % in air) Not established

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: At elevated temperatures containers may rupture. Use of large amount of water may cause product to float and spread fire.

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 prolonged/repeated skin contact. Avoid breathing vapors and mists. Wash thoroughly after handling. Remove oil-soaked clothing and launder before re-use. Discard oil soaked shoes and other items that 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 use a NIOSH approved respirator with organic vapor cartridges and a particulate pre-filter (R or P series). For higher concentrations (greater than 10 times the TLV) a NIOSH approved supplied air respirator (with escape bottle if required) or self-contained breathing apparatus may be required. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

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.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION (continued)

GLOVES: Rubber, neoprene or other impervious gloves are recommended where prolonged or repeated 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 avoid prolonged/repeated skin contact. Suitable washing facilities should be available.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT (@ 760 mmHg): >475°F	MELTING POINT: Not available
SPECIFIC GRAVITY (H₂O=1): 0.88-0.89	VOLATILE: 0%
VAPOR PRESSURE (@ 20 C mm Hg): 0.01	(VAPOR DENSITY (AIR=1): >5
EVAPORATION RATE : Nil	COEFFICIENT OF WATER/OIL: Not available
APPEARANCE AND ODOR: Amber liquid, mild petroleum odor.	

SECTION 10 STABILITY and REACTIVITY

STABILITY: This material is stable.

CONDITIONS TO AVOID: Avoid excessive heat.

INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon monoxide, carbon dioxide and hydrocarbon fragments.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY VALUES: Product: Oral rat LD50 > 5 g/kg
Skin rabbit LD50 >2 g/kg

None of the components is listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.

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

SECTION 14: TRANSPORTATION INFORMATION

DOT SHIPPING DESCRIPTION : Not Regulated

DOT HAZARD CLASSIFICATION: None

DOT LABELS REQUIRED (49CFR172.101): None

UN NUMBER: None

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD CLASSIFICATION: Not Hazardous

SECTION 15: REGULATORY INFORMATION (continued)

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

EPA SARA 311 HAZARD CLASSIFICATION: Not Hazardous.

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:

Zinc Compounds	1-5%
Copper Compounds	1-5%

WHMIS CLASSIFICATION: Not a controlled product.

EU CLASSIFICATION: Not a dangerous preparation.

EU RISK AND SAFETY PHRASES: None

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

CALIFORNIA PROPOSITION 65: This product is not known to contain any chemicals which are known to the State of California to cause cancer or reproductive harm.

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

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

SECTION 16: OTHER INFORMATION

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