



## Material Safety Data Sheet

### SECTION 1 IDENTIFICATION

**Product Name:** SPECTRO™ 4

**Available Viscosities:**

5W30, 10W30, 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: 11/19/13

### SECTION 2: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

This product is an amber liquid with a mild petroleum odor. Slight fire hazard (Flash Point >360°F). May cause mild eye and skin irritation. Accidental ingestion may cause gastrointestinal effects with nausea and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

**EU Preparation Classification (1999/45/EC):** Not a dangerous preparation

### SECTION 3 PRODUCT COMPONENTS

<b>Component</b>	<b>CAS#./EINECS</b>	<b>WT.%</b>	<b>EU Classification (67/548/EEC)</b>
Petroleum Oil	64741-88-4 / 265-090-8 64742-01-4 / 265-101-6	90-95	Not Applicable
Zinc Dithiophosphate	68649-42-3 / 272-028-3	1-2	Xi N, R38, R41, R51/53
Proprietary Additives	Proprietary	1-10	Not Applicable

### SECTION 4 EMERGENCY and FIRST AID PROCEDURES

**EYE CONTACT:** Immediately flush eye with water. Get medical attention if irritation persists.

**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. Never give anything by mouth to an unconsciousness person. Get immediate medical attention by calling a Poison Control Center or hospital emergency department.

### SECTION 5 FIRE and EXPLOSION HAZARD DATA

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

**SPECIAL FIREFIGHTING PROCEDURES:** Firefighters should wear full emergency equipment and an 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 amounts 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 and other incompatible materials.

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

#### Exposure Guidelines:

<u>INGREDIENTS</u>	<u>CAS#.</u>	<u>EXPOSURE LIMITS</u>
Petroleum Oil	Proprietary	5 mg/m3 TWA OSHA PEL (as oil mist) 5 mg/m3 ACGIH TLV (as mineral oil)
Zinc Dithiophosphate		0.1 mg/m3 TWA MAK DFG (respirable) 2 mg/M3 TWA MAK DFG (inhalable)
Proprietary Additives	Proprietary	5 mg/m3 TWA OSHA PEL (as oil mist) 5 mg/m3 ACGIH TLV (as mineral oil)

**RESPIRATORY PROTECTION:** None needed under normal use conditions with adequate ventilation. If the exposure limits are exceeded use an approved respirator with organic vapor cartridges and a particulate pre-filter (R or P series). For higher concentrations, an 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 applicable regulations 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.

**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

**APPEARANCE AND ODOR:** Amber liquid, mild petroleum odor.

**BOILING POINT (@ 760 mmHg):** Not determined  
**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** Not determined  
**VAPOR PRESSURE (@ 20 C mm Hg):** Not determined

**EVAPORATION RATE:** Not determined  
**AUTOIGNITION TEMPERATURE:** Not established

**FLASH POINT: 5W30:** 410°F/210°C **10W30:** 363°F/184°C **10W40:** 421°F/216°C  
**20W40:** 428°F/220°C **20W50:** 446°F/230°C

**VISCOSITY: 10W30:** 97.2cSt @ 40°C **20W40:** 133 cSt @ 40°C **20W50:** 158 cSt @ 40°C

**MELTING POINT:** Not available

**VOLATILE:** Not applicable

**(VAPOR DENSITY (AIR=1):** Not determined

**COEFFICIENT OF WATER/OIL:** Not available

**FLAMMABLE LIMITS:** (vol % in air) Not established

#### 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 monoxides, carbon dioxide, amines and hydrogen sulfide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

##### 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.

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

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

##### ACUTE TOXICITY VALUES:

Product: Oral rat LD50 > 2 g/kg  
Skin rabbit LD50 >2 g/kg

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

**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:  
None

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

**CALIFORNIA PROPOSITION 65:** This product contains the following chemicals which are known to the State of California to cause cancer or reproductive toxicity (birth defects): None

**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:** Not a dangerous preparation

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

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

**China IECSC:** All of the components of this product are listed on the Inventory of Existing Chemical Substances in China.

**European Union:** All of the ingredients are listed on the European Inventory of New and Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS) inventory.

**Japan ENCS:** All of the ingredients of this product are listed on the Japanese Existing and New Chemical Substances.

**Korea KECL:** All of the components of this product are listed on the Korean Existing Chemicals List.

**Philippine PICCS:** All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances List.

<b>SECTION 16: OTHER INFORMATION</b>
--------------------------------------

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

**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

Xi Irritant

N Dangerous for the Environment

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Revision History:**

11/19/13: Section 1 Name, Section 9 Flashpoint, Viscosity.