



## Material Safety Data Sheet

### SECTION 1 IDENTIFICATION

**Product Name:** SPECTRO® GOLDEN 4

**Available Viscosities:**  
10W30, 10W40, 15W50, 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 a light amber colored liquid with a mild petroleum odor. Slight fire hazard (Flash Point 320-446°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. Prolonged or repeated skin contact with used motor oil may cause skin cancer.

### SECTION 3 PRODUCT COMPONENTS

Chemical Name	CAS#./EINECS	WT.%	EU Classification (67/548/EEC)
Severely Refined Petroleum Oils	64741-88-4 / 265-090-8 64742-01-4 / 265-101-6	60-80	Not Applicable
Synthetic Base Oils	Proprietary	20-30	Not Applicable
Zinc Dithiophosphate	68649-42-3 / 272-028-3	1-2	Xi N, R38, R41, R51/53
Proprietary Additives	Proprietary	5-10	Not Applicable

See Section 16 for further information on EU Classification.

### 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 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 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**

**Exposure Guidelines:**

<u>Chemical Name</u>	<u>CAS#.</u>	<u>Exposure Limits</u>
Severely Refined Petroleum	64741-88-4	5 mg/m <sup>3</sup> TWA OSHA PEL
Oils	64742-01-4	5 mg/m <sup>3</sup> TWA AGIH TLV
Synthetic Base Oils	Proprietary	5 mg/m <sup>3</sup> TWA OSHA PEL 5 mg/m <sup>3</sup> TWA AGIH TLV
Zinc Dithiophosphate	68649-42-3	0.1 mg/m <sup>3</sup> TWA MAK DFG 2 mg/m <sup>3</sup> TWA MAK DFG
Proprietary Additives	Proprietary	None Established

**RESPIRATORY PROTECTION:** None needed under normal use conditions with adequate ventilation. If the exposure limit is 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:** Light amber liquid, mild petroleum odor.

**BOILING POINT (@ 760 mmHg):** Not established

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 0.876

**VAPOR PRESSURE (@ 20 C mm Hg):** 0.01

**EVAPORATION RATE:** Nil

**FLASHPOINT:** 10W30: 320°F / 160°C

10W40: 420.8°F / 216°C

15W50: 473°F / 245°C

20W50: 446°F / 230°C

**AUTOIGNITION TEMPERATURE:** Not established

**MELTING POINT:** Not available

**VOLATILE:** 0%

**(VAPOR DENSITY (AIR=1):** 12

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

**VISCOSITY:** 10W30: 79.5 cSt @ 40°C

10W40: 97.2 cSt @ 40°C

15W50: 138 cSt @ 40°C

20W50: 155 cSt @ 40°C

**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, nitrogen and sulfur oxides 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. 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, 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:

Petroleum Oil    Oral rat LD50 > 2000 mg/kg  
Skin rabbit LD50 >2000 mg/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:** Hazardous (Exposure Limits)

**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 Dithiophosphate	68649-42-3	1-2%
Zinc Compounds		

**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.

**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 known to the State of California to cause cancer and reproductive toxicity: Lead <7.7 ppm (cancer), Cadmium <7.7 ppm (male reproductive toxicity, developmental).

**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>
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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 2 Emergency Overview, Section 3 Composition, Section Occupational Exposure Limits, Section 9 Flashpoint, Viscosity.