

Material Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: SPECTRO™ Metal Parts Cleaner

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: 10/25/2005

SECTION 2 PRODUCT COMPONENTS

<u>INGREDIENTS</u>	<u>CAS#.</u>	<u>WT.%</u>
Heptane	142-82-5	60-100
Isopropyl Alcohol (Isopropanol)	67-63-0	5-15
Carbon Dioxide	124-38-9	1-10

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a clear, colorless liquid with a characteristic odor in an aerosol container. Extremely flammable aerosol (Flash Point 6°F). May causes eye irritation. Prolonged skin contact may cause irritation. Breathing vapors may cause respiratory irritation and central nervous system effects including headache, dizziness or nausea. Harmful or fatal if swallowed. Accidental ingestion may cause gastrointestinal effects with irritation, nausea, vomiting, dizziness, coma and death. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

HEALTH HAZARDS:

INHALATION: Excessive inhalation of vapors or mists may cause respiratory tract irritation and central nervous system effects including headache, nausea, dizziness, drowsiness, weakness, confusion, narcosis, unconsciousness and coma.

SKIN CONTACT: Prolonged or repeated contact may dry and irritate skin with possible defatting of the skin and dermatitis.

EYE CONTACT: Vapors may cause irritation. Contact with liquid may cause severe irritation with redness and pain with possible conjunctivitis or eye damage.

INGESTION: Unlikely due to aerosol container, however swallowing may cause gastrointestinal disturbances including abdominal pain, belching, nausea, vomiting, dizziness, drowsiness, coma or death. May cause central nervous system depression with unsteady gait and sedation. Aspiration into the lungs may occur during ingestion or vomiting may cause lung damage which may be fatal.

CHRONIC EFFECTS OF OVEREXPOSURE: Reports has associated repeated and prolonged occupational exposure to various organic solvents with internal organ, brain and nervous system damage. Prolonged or repeated contact with this product may possibly lead to irritation or dermatitis. Intentional misuse by deliberately concentrating and inhaling the product may be harmful or fatal. The use of alcoholic beverages may increase toxic effects..

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

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with chronic skin and nervous system disorders may be at increased risk from exposure to this material. Breathing of vapors and/or mists may aggravate respiratory disorders.

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 if irritation persists.

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

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: Unlikely due to aerosol container. Never give anything by mouth to an unconscious or drowsy person. 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: 6°F/ -14°C

METHOD:

FLAMMABLE LIMITS: (vol % in air) LEL: 1.05% (heptane) UEL: 12.7% (isopropanol)

AUTOIGNITION TEMPERATURE: Not established

AEROSOL PROTECTION LEVEL (NFPA 30B): Level 3

FLAME PROJECTION: >18 inches (45 cm)

FLASHBACK: Yes

EXTINGUISHING MEDIA: Water fog, alcohol foam, dry chemical or carbon dioxide. Cool fire exposed containers with water.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Use shielding to protect against bursting cans.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable. Contents under pressure. Keep away from heat and open flames. Vapors are heavier than air and may travel to a remote ignition source and flash back. Containers may rupture or explode at temperatures above 120°F.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate protective equipment. Remove all sources of ignition. Ventilate area. Collect material for disposal using non-combustible absorbent material and place in a container suitable for flammable waste. Report spill as required by local and federal regulations.

SECTION 7 HANDLING and STORAGE

Extremely Flammable Aerosol.

Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Use with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and launder before re-use. No smoking in use or storage area.

Protect containers from physical damage. Store in a cool, well ventilated area at temperatures below 120°F. Store away from direct sunlight. Do not incinerate containers.

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>
Heptane	142-82-5	500 ppm PEL-TWA 50 ppm TLV-TWA
Isopropyl Alcohol (Isopropanol)	67-63-0	400 ppm PEL-TWA 200 ppm TLV-TWA 400 ppm TWA-STEL
Carbon Dioxide	124-38-9	5,000 ppm TWA PEL-TWA 5,000 ppm TLV-TWA 30,000 ppm TWA-STEL

RESPIRATORY PROTECTION: None needed under normal use conditions with adequate ventilation. If the TLV is exceeded use a NIOSH approved air purifying respirator, supplied air respirator (with escape bottle if required) or self-contained breathing apparatus. 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, an explosion-proof mechanical ventilation such as local exhaust may be required.

GLOVES: Nitrile 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): Not available

SPECIFIC GRAVITY (H₂O=1): 0.73

VAPOR PRESSURE (@ 70°F mm Hg): Not available

EVAPORATION RATE (Butyl Acetate =1): Not available

SOLUBILITY: Negligible

APPEARANCE AND ODOR: Clear, colorless liquid, characteristic odor. The odor threshold for isopropanol is 43 ppm. The odor threshold for heptane is reported to be 230 ppm.

MELTING POINT: Not available

VOLATILE: 100%

(VAPOR DENSITY (AIR=1): >1

COEFFICIENT OF WATER/OIL: Not available

SECTION 10 STABILITY and REACTIVITY

STABILITY: This material is stable.

CONDITIONS TO AVOID: Avoid heat, sparks and open flames. Avoid exposure to temperatures above 120°F.

INCOMPATIBILITY: Strong oxidizing agents, acids and bases. Avoid aluminum, tin, zinc, copper and their alloys. Moist carbon dioxide is corrosive to most metals because of the formation of carbonic acid.

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

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY VALUES:

Heptane: Inhalation rat LC50 103 gm/m³/4 hours
Isopropanol: Oral rat LD50 5045 mg/kg
Inhalation rat LC50 16000 ppm/8 hours
Skin rabbit LD50 12,800 mg/kg
Carbon Dioxide: No data available

None of the components is listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.
Isopropanol has tested positive for mutagenicity in some test systems.
None of the components are known to cause sensitization in animals or humans.
Heptane has been shown to cause reproductive toxicity in studies with laboratory animals.

SECTION 12: ECOLOGICAL INFORMATION

Heptane: No ecotoxicity data is available.
Isopropanol: LC50/96-hour values for fish are over 100 mg/l.
Carbon Dioxide: No data available

SECTION 13: DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: This product is RCRA Hazardous Waste (Ignitable) if discarded in the purchased form. Dispose in accordance with federal, state and local regulations. Do not incinerate containers. 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
UN NUMBER: None

IMDG SHIPPING DESCRIPTION: Aerosols, 2, UN1950, F.P. -14C

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD CLASSIFICATION: Flammable, pressure hazard, irritant,

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

EPA SARA 311 HAZARD CLASSIFICATION: Acute health, chronic health, fire hazard, sudden pressure release.

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

None

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

WHMIS CLASSIFICATION: Class B-5: Flammable aerosol; Class D-2, Subdivision B: Toxic material causing other chronic effects.

EU CLASSIFICATION: Highly Flammable (F) , Harmful (Xn), Dangerous for the Environment (N)
EU RISK AND SAFETY PHRASES: R11, R38, R50/53, R67, S2, S16, S23, S51, S61

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: Benzene <1 ppm

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).

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

Japan ENCS: All of the ingredients of this product are listed on the Japanese Existing and New Chemical Substances (METI) List.

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

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

SECTION 16: OTHER INFORMATION

NFPA Rating: Health: 2 Fire: 4 Reactivity: 0