



# MATERIAL SAFETY DATA SHEET

PRO II 9000™ Intake Valve & Combustion Chamber Synthetic Cleaner (Step 2)

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PRO II 9000™ Intake Valve & Combustion Chamber Synthetic Cleaner (Step 2)

**Product Number:** 72222 172011

**Product Use:** Cleaner.

**Manufacturer/Supplier:** International Lubricants, Inc.  
P.O. Box 24743,  
Seattle WA 98124-0743, USA

**Phone Number:** (206) 762-5343  
(800) 333-LUBE (5823)

**Emergency Phone:** CHEM TEL (800) 255-3924  
CHEM TEL (813) 248-0585

**Date of Preparation:** April 15, 2009

## Section 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### DANGER

FLAMMABLE. HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

**Potential Health Effects:** See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness. This product may be aspirated into the lungs and cause chemical pneumonitis.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Medical Conditions Aggravated By Exposure:** Asthma. Allergies.

**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.



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## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Light aromatic solvent naphtha (petroleum) (C8 to C10)	64742-95-6	10 - 30
1,2,4-Trimethylbenzene	95-63-6	3 - 7
Xylene	1330-20-7	0.1 - 1
Toluene	108-88-3	10 - 30
m-Xylene	108-38-3	10 - 30
p-Xylene	106-42-3	5 - 10
Ethylbenzene	100-41-4	5 - 10
o-Xylene	95-47-6	3 - 7
Oleic acid, ethoxylated	9004-96-0	1 - 5
Ethylene glycol monobutyl ether	111-76-2	1 - 5
Diethylene glycol monobutyl ether	112-34-5	0.5 - 1.5
Hexylene glycol	107-41-5	0.5 - 1.5
Sodium hydroxide	1310-73-2	1 - 5
Heptane, branched, cyclic and linear	426260-76-6	1 - 5
Heptane	142-82-5	1 - 5
Distillates (petroleum), light distillate hydrotreating process, low-boiling	68410-97-9	1 - 5
1,3,5-Trimethylbenzene	108-67-8	0.1 - 1
Medium aliphatic solvent naphtha (petroleum) C9-C12	64742-88-7	1 - 5

## Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

## Section 5: FIRE FIGHTING MEASURES

- Flammability:** Flammable by WHMIS/OSHA criteria.
- Means of Extinction:**
- Suitable Extinguishing Media:** Treat for surrounding material.
  - Unsuitable Extinguishing Media:** Not available.
- Products of Combustion:** May include, and are not limited to: oxides of carbon.
- Explosion Data:**
- Sensitivity to Mechanical Impact:** Not available.
  - Sensitivity to Static Discharge:** Not available.



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**Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Clean-Up:** Scoop up material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

**Other Information:** Not available.

## Section 7: HANDLING AND STORAGE

### Handling:

Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

### Storage:

Keep out of the reach of children. Keep container tightly closed. Do not store at temperatures above 49 °C / 120 °F.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Light aromatic solvent naphtha (petroleum) (C8 to C10)	5 mg/m <sup>3</sup> (mist)	5 mg/m <sup>3</sup> (mist)
1,2,4-Trimethylbenzene	Not available.	25 ppm
Xylene	100 ppm	100 ppm
Toluene	200 ppm	50 ppm
m-Xylene	100 ppm	100 ppm
p-Xylene	100 ppm	100 ppm
Ethylbenzene	100 ppm	100 ppm
o-Xylene	100 ppm	100 ppm
Oleic acid, ethoxylated	Not available.	Not available.
Ethylene glycol monobutyl ether	50 ppm	20 ppm
Diethylene glycol monobutyl ether	Not available.	Not available.
Hexylene glycol	Not available.	25 ppm
Sodium hydroxide	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Heptane, branched, cyclic and linear	400 ppm	400 ppm
Heptane	400 ppm	400 ppm
Distillates (petroleum), light distillate hydrotreating process, low-boiling	Not available.	Not available.
1,3,5-Trimethylbenzene	Not available.	Not available.
Medium aliphatic solvent naphtha (petroleum) C9-C12	100 ppm	100 ppm



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**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

**Personal Protective Equipment:**

**Eye/Face Protection:** Wear eye/face protection.

**Hand Protection:** Wear suitable gloves.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear.
<b>Color:</b>	Colorless.
<b>Odour:</b>	Characteristic.
<b>Odour Threshold:</b>	Not available.
<b>Physical State:</b>	Liquid.
<b>pH:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Freezing Point:</b>	Not available.
<b>Boiling Point:</b>	~ 250 °C (~ 482 °F)
<b>Flash Point:</b>	~ -6.66 °C (~ 20.012 °F)
<b>Evaporation Rate:</b>	Not available.
<b>Lower Flammability Limit:</b>	Not available.
<b>Upper Flammability Limit:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	> 1 (Air = 1)
<b>Specific Gravity:</b>	1.16
<b>Solubility in Water:</b>	Insoluble.
<b>Coefficient of Water/Oil Distribution:</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Percent Volatile, wt. %:</b>	Not available.
<b>VOC content, wt. %:</b>	Not available.

## Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions. Keep in a cool place.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** Oxidizers.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon.



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**Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

## Section 11: TOXICOLOGY INFORMATION

### EFFECTS OF ACUTE EXPOSURE

#### Component Analysis

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub>
Light aromatic solvent naphtha (petroleum) (C8 to C10)	8400 mg/kg, rat	Not available.
1,2,4-Trimethylbenzene	5000 mg/kg, rat	18000 mg/m <sup>3</sup> 4 hrs, rat
Xylene	3523 mg/kg, rat	5000 ppm 4 hrs, rat
Toluene	636 mg/kg, rat	8000 mg/m <sup>3</sup> , rat
m-Xylene	5000 mg/kg, rat	Not available.
p-Xylene	3910 mg/kg, rat	4550 ppm 4hrs, rat
Ethylbenzene	3500 mg/kg, rat	Not available.
o-Xylene	3567 mg/kg, rat	6125 ppm 12 hrs, rat
Oleic acid, ethoxylated	Not available.	Not available.
Ethylene glycol monobutyl ether	470 mg/kg, rat	450 ppm 4 hrs, rat
Diethylene glycol monobutyl ether	5660 mg/kg, rat	Not available.
Hexylene glycol	3700 mg/kg, rat	> 310 mg/m <sup>3</sup> 1hr, rat
Sodium hydroxide	500 mg/kg, rabbit (LD <sub>50</sub> )	Not available.
Heptane, branched, cyclic and linear	Not available.	103 g/m <sup>3</sup> 4hrs, rat
Heptane	Not available.	103 g/m <sup>3</sup> 4hrs, rat
Distillates (petroleum), light distillate hydrotreating process, low-boiling	Not available.	Not available.
1,3,5-Trimethylbenzene	Not available.	24000 mg/m <sup>3</sup> 4hrs, rat
Medium aliphatic solvent naphtha (petroleum) C9-C12	19000 mg/kg, rat	700 mg/m <sup>3</sup> , rat

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Ingestion:** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness. This product may be aspirated into the lungs and cause chemical pneumonitis.

### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Not available.

**Chronic Effects:** Not hazardous by WHMIS/OSHA criteria.

**Carcinogenicity:** Hazardous by WHMIS/OSHA criteria.



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Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Light aromatic solvent naphtha (petroleum) (C8 to C10)	Not listed.
1,2,4-Trimethylbenzene	Not listed.
Xylene	Not listed.
Toluene	Not listed.
m-Xylene	G-A4
p-Xylene	Not listed.
Ethylbenzene	G-A3, I-2B, CP65
o-Xylene	Not listed.
Oleic acid, ethoxylated	Not listed.
Ethylene glycol monobutyl ether	Not listed.
Diethylene glycol monobutyl ether	Not listed.
Hexylene glycol	Not listed.
Sodium hydroxide	Not listed.
Heptane, branched, cyclic and linear	Not listed.
Heptane	Not listed.
Distillates (petroleum), light distillate hydrotreating process, low-boiling	Not listed.
1,3,5-Trimethylbenzene	Not listed.
Medium aliphatic solvent naphtha (petroleum) C9-C12	Not listed.

\* See Section 15 for more information.

**Mutagenicity:** Not hazardous by WHMIS/OSHA criteria.

**Reproductive Effects:** Not hazardous by WHMIS/OSHA criteria.

**Developmental Effects:**

**Teratogenicity:** Hazardous by WHMIS/OSHA criteria.

**Embryotoxicity:** Hazardous by WHMIS/OSHA criteria.

**Respiratory Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Skin Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Toxicologically Synergistic Materials:** Not available.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** May cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

## Section 13: DISPOSAL CONSIDERATIONS

**Disposal Instructions:**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.



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## Section 14: TRANSPORTATION INFORMATION

**DOT Classification**  
ORM-D

**TDG Classification**  
Limited Quantity

## Section 15: REGULATORY INFORMATION

### Federal Regulations

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**US:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

### SARA Title III

#### Ingredient

#### Section 302 (EHS) TPQ (lbs.)

#### Section 304 EHS RQ (lbs.)

#### CERCLA RQ (lbs.)

#### Section 313

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Light aromatic solvent naphtha (petroleum) (C8 to C10)	Not listed.	Not listed.	Not listed.	Not listed.
1,2,4-Trimethylbenzene	Not listed.	Not listed.	Not listed.	Yes.
Xylene	Not listed.	Not listed.	100	Yes.
Toluene	Not listed.	Not listed.	1,000	Yes.
m-Xylene	Not listed.	Not listed.	1,000	Yes.
p-Xylene	Not listed.	Not listed.	100	Yes.
Ethylbenzene	Not listed.	Not listed.	1,000	Yes.
o-Xylene	Not listed.	Not listed.	1,000	Yes.
Oleic acid, ethoxylated	Not listed.	Not listed.	Not listed.	Not listed.
Ethylene glycol monobutyl ether	Not listed.	Not listed.	Not listed.	Yes.
Diethylene glycol monobutyl ether	Not listed.	Not listed.	Not listed.	Not listed.
Hexylene glycol	Not listed.	Not listed.	Not listed.	Not listed.
Sodium hydroxide	Not listed.	Not listed.	1,000	Not listed.
Heptane, branched, cyclic and linear	Not listed.	Not listed.	Not listed.	Not listed.
Heptane	Not listed.	Not listed.	Not listed.	Not listed.
Distillates (petroleum), light distillate hydrotreating process, low-boiling	Not listed.	Not listed.	Not listed.	Not listed.
1,3,5-Trimethylbenzene	Not listed.	Not listed.	Not listed.	Not listed.
Medium aliphatic solvent naphtha (petroleum) C9-C12	Not listed.	Not listed.	Not listed.	Not listed.

### State Regulations

#### California Proposition 65:

This product contains a chemical known to the state of California to cause cancer.



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## Global Inventories

Ingredient	Canada	USA
	DSL/NDSL	TSCA
Light aromatic solvent naphtha (petroleum) (C8 to C10)	DSL	Yes.
1,2,4-Trimethylbenzene	DSL	Yes.
Xylene	DSL	Yes.
Toluene	DSL	Yes.
m-Xylene	DSL	Yes.
p-Xylene	DSL	Yes.
Ethylbenzene	DSL	Yes.
o-Xylene	DSL	Yes.
Oleic acid, ethoxylated	DSL	Yes.
Ethylene glycol monobutyl ether	DSL	Yes.
Diethylene glycol monobutyl ether	DSL	Yes.
Hexylene glycol	DSL	Yes.
Sodium hydroxide	DSL	Yes.
Heptane, branched, cyclic and linear	DSL	Yes.
Heptane	DSL	Yes.
Distillates (petroleum), light distillate hydrotreating process, low-boiling	DSL	Yes.
1,3,5-Trimethylbenzene	DSL	Yes.
Medium aliphatic solvent naphtha (petroleum) C9-C12	DSL	Yes.

## HMIS - Hazardous Materials Identification System

Health - 2      Flammability - 3      Physical Hazard - 0      PPE - B

## NFPA - National Fire Protection Association:

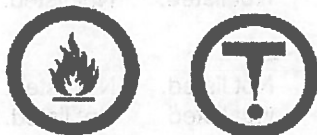
Health - 2      Fire - 3      Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

## WHMIS Classification(s):

- Class B2 - Flammable Liquid
- Class D2A - Carcinogenicity
- Class D2A - Teratogenicity and Embryotoxicity
- Class D2B - Skin/Eye Irritant

## WHMIS Hazard Symbols:



## SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.





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- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.  
1 - Known to be carcinogens.  
2 - Reasonably anticipated to be carcinogens.

### Section 16: OTHER INFORMATION

**Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

**Expiry Date:** April 15, 2012

**Version #:** 1.0

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