



**LPS LABORATORIES**  
**WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM**  
**Material Safety Data Sheet**

**Section 1 - Product Identification and Use**

**Manufacturer's Name:**

LPS Laboratories

**Product Identifier:**

LPS KB 88 The Ultimate Penetrant

**Address (Number Street):**

4647 Hugh Howell Road

**Product Use:** A high performance, industrial-grade rust penetrating fluid.

**Address (City, State, Zip):**

Tucker, GA 30085-5052

**Part Numbers:**

C02316, C02301, C02305, C02355

**Telephone Number:** 770-243-8800

**Emergency Telephone Number:**

1-613-996-6666 CANUTEC

**Packaging:**

Aerosol (367 grams), 3.78 L, 18.93 L, 208 L

**WHMIS Classification:**

Aerosol: Class A, Class B Div. 5, Class D Div. 2B

Bulk: Class B Div. 3, Class D Div. 2B

*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.*

**Section 2 - Hazardous Ingredients**

Ingredients	CAS Numbers	%WW	ACGIH -TLV	LC 50	LD 50
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	25 – 35 %	n.av.	>590 mg/m <sup>3</sup> /4H/rat	>2ml/kg/rabbit
Distillates (Petroleum), Hydrotreated Light	64742-47-8	15 – 25 %	n.av.	>6.8 mg/L	>5 g/kg/acute oral/rat
Dipropylene Glycol Methyl Ether Acetate	88917-22-0	15 – 25 %	100 ppm	n.av.	n.av.
Dipropylene Glycol Butyl Ether	29911-28-2	5 – 15%	n.av.	n.av.	1620 µL/kg/rat
Distillates (Petroleum), Hydrotreated Middle	64742-46-7	5- 15 %	5mg/m <sup>3</sup> /8hrs	n.av.	n.av.
Carbon Dioxide propellant (aerosol only)	124-38-9	1 – 4 %	5000 ppm	n.av.	n.av.

**Section 3 - Physical / Chemical Characteristics**

**Boiling point (C°):** 213°C

**Vapor pressure ( mmHg) @ 37.7° C :** <0.05

**Vapor density (Air = 1):** >1

**Coefficient of water/oil distribution:** < 1

**Physical state:** Thin liquid

**Odor / Color:** Clear, red liquid with strong odor

**Odor threshold (ppm):** n.av.

**Specific gravity (H2O = 1):** 0.86 – 0.88

**Evaporation rate (n-Butyl Acetate = 1):** <0.1

**Freezing Point (C°):** n.ap.

**pH:** n.ap.

**Solubility in water (% by weight):** less than 15%

**Percent volatile by volume (%):** 97

n.av. = not available  
n.ap. = not applicable

---

## Section 4 - Fire and Explosion Hazard

---

**Flammability:** Yes X No\_\_\_ Product will ignite when heated above flash point and exposed to an open flame.

**Flash point (method used):** >60°C TCC **Flammable limits:** LEL 0.6% UEL 7.0%

**Autoignition temperature:** >228°C

**Extinguishing media:** Foam, dry chemical, or carbon dioxide. Do not use a direct stream of water.

**Hazardous combustion products:** Carbon dioxide and carbon monoxide

**Sensitivity to impact:** None

**Sensitivity to static discharge:** None

**Special hazards (including explosion data):** Excessive heat created by fire will cause aerosols to burst.

---

## Section 5 - Reactivity Data

---

**Stability:** Stable

**Conditions to avoid:** Avoid sparks or open flames.

**Incompatibility (Materials to avoid):** Strong oxidizing agents.

**Hazardous decomposition products:** Thermal decomposition may yield carbon monoxide.

**Hazardous polymerization:** Will not occur.

**Reactivity and under what conditions:** None known at this time.

---

## Section 6 - Toxicological Properties

---

**Primary route(s) of entry:** Inhalation, skin absorption, eyes

**Exposure limits:** Not established.

**Acute effects of over exposure:**

**Inhalation:** Headache, dizziness, nausea and anesthetic effects (central nervous system depression).

**Eyes:** Irritation.

**Skin:** Repeated or prolonged contact may cause drying and defatting of skin.

**Ingestion:** Low order of oral toxicity; however, minute amount aspirated into lungs during ingestion may cause severe pulmonary injury.

**Chronic effects of exposure:** Repeated or prolonged skin contact may result in irritation (redness, swelling, itching).

**Carcinogenicity:** None known at this time.

**Medical conditions generally aggravated by exposure:** Pre-existing eye, skin and respiratory disorders may be aggravated.

**Other toxicological properties (including reproductive toxicity, synergistic effects, sensitization, teratogenicity, mutagenicity):** None known at this time.

---

## Section 7 - Preventive Measures

---

**Personal Protection:**

**Hands:** Use PVA (polyvinyl alcohol) gloves when handling bulk liquid. Nitrile gloves are acceptable for short-term use.

**Eyes:** For spraying or splashing of solvent, use face shield or goggles. Contact lenses should not be worn.

**Respiratory:** None required if good ventilation is maintained. If vapor concentration rises above TLV, use NIOSH approved organic vapor cartridge respirator. For large spills or emergencies in completely enclosed areas, use self-contained breathing apparatus.

**Engineering Controls:** Ventilate low lying areas where vapors may collect. Provide local exhaust if TLV is exceeded.

**Procedures to be followed in case of leak or spill:** Evacuate area, ventilate and avoid breathing vapors. Remove ignition sources. Remove leaking container and transfer remaining product to another vessel. For large spills, prevent product from going into sewers and water sources by diking or impounding. Use appropriate safety equipment, mop up or soak up with absorbent material, such as sand or clay, and transfer to disposal drums using non-sparking equipment.

**Waste disposal:** Dispose of in accordance with municipal, provincial, and federal regulations. Do not incinerate aerosols. Do not flush to sewer.

**Handling and Storage Procedures:** Store aerosols below 50°C and above 0°C. Store away from ignition sources and avoid breathing vapors. Wash hands with soap and water after use, or before breaks and lunch and at the end of work periods. Remove contaminated clothing and laundry before reuse.

**Special Shipping Instructions:** Consumer Commodity ORM-D (aerosols)

<b>H.M.I.S. Labeling:</b>	<b>Health: 1</b>	<b>Fire: 2</b>	<b>Reactivity: 0</b>
<b>N.F.P.A. Labeling:</b>	<b>Health: 1</b>	<b>Fire: 2</b>	<b>Reactivity: 0</b>

---

### Section 8 - First Aid Measures

---

**Emergency and first aid measures:**

**Inhalation:** Move to fresh air and contact physician. Administer oxygen if breathing is difficult.

**Eyes:** Flush eyes with plenty of water, contact a physician.

**Skin:** Wash with soap and water; apply medicated skin cream.

**Ingestion:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Get medical attention.

---

### Section 9 - Preparation Date of WHMIS

---

The foregoing technical information and recommendations are compiled from sources that are believed to be accurate and reliable. However, they are supplied without warranty or guarantee of any kind either expressed or implied. The purchaser is responsible for selecting and determining the suitability of products for purchaser's particular needs and we disclaim any responsibility for improper applications or misuse of our products in any manner whatsoever.

January 16, 2007  
Ed Williams, Manager of Research and Development  
LPS Laboratories

Form # 2950  
WHMIS LPS KB88 The Ultimate Penetrant

