



## Material Safety Data Sheet

LA0373  
Mineral Spirits

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Id:** LA0373  
**Product Name:** Mineral Spirits  
**Synonyms:** None  
**Chemical Family:** None Known  
**Application:** Organic solvent.

**Distributed By:**  
Univar Canada Ltd.  
9800 Van Horne Way  
Richmond, BC  
V6X 1W5

**Prepared By:** The Safety, Health and Environment Department of Univar Canada Ltd.  
**Preparation date of MSDS:** 02/02/2004  
**Telephone number of preparer:** 1-866-686-4827

**24-Hour Emergency Telephone Number (CHEMTREC):** (800) 424-9300

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### HAZARDOUS COMPONENTS

Ingredients	Percentage	LD50s and LC50s Route & Species:
Solvent Naphtha (petroleum), Medium Aliph. 64742-88-7	100	Acute Oral LD50>5000mg/kg (rat) Acute Dermal LD50>3000mg/kg (rabbit)

**Notes:** No additional remark.

### 3. HAZARDS IDENTIFICATION

**Potential Acute Health Effects:**

**Eye Contact:** Vapours are moderately irritating to the eyes.

**Skin Contact:** Prolonged or repeated contact may cause defatting and drying of the skin.

**Inhalation:** Vapours are moderately irritating to the respiratory passages. In rare cases may sensitize heart muscle causing heart arrhythmia. The liquid when accidentally aspirated into the lungs can cause a severe inflammation of the lung.

**Ingestion:** None known

## 4. FIRST AID MEASURES

**Eye Contact:** Flush eyes with water for at least 15 minutes while holding eyelids open. Obtain medical attention.

**Skin Contact:** Wash contaminated skin with mild soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**Ingestion:** Do not induce vomiting. Guard against aspiration into lungs by having the individual turn on to their left side. Do not give anything by mouth to an unconscious person. Get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Notes to Physician:**

The main hazard following accidental ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. If more than 2.0 mL/kg has been ingested, vomiting should be induced with supervision.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** 43 °C / 109 °F

**Flash Point Method:** Tag Closed Cup

**Autoignition Temperature:** 229 °C / 444 °F

**Flammable Limits in Air (%):** Lower: 0.8 Upper: 5

**Extinguishing Media:** Use DRY chemicals, CO<sub>2</sub>, alcohol foam or water spray.

**Special Exposure Hazards:** Combustible. Vapour forms a flammable / explosive mixture with air between upper and lower flammable limits. Do not use water except as a fog. Containers exposed to intense heat from fires should be cooled with water to prevent vapour pressure build-up which could result in container rupture. Containers exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. Do not enter confined fire space without adequate protective clothing and an approved positive pressure self-contained breathing apparatus.

**Special Protective Equipment:** Fire fighters should wear full protective clothing, including self-contained breathing equipment.

**NFPA RATINGS FOR THIS PRODUCT ARE:** HEALTH 0, FLAMMABILITY 2, REACTIVITY 0

**HMIS RATINGS FOR THIS PRODUCT ARE:** HEALTH 0, FLAMMABILITY 2, REACTIVITY 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:** Wear appropriate protective equipment.

**Environmental Precautionary Measures:** Spills or releases should be reported, if required to the appropriate local, state and federal agencies.

**Procedure for Clean Up:** Eliminate all ignition sources. Handling equipment must be grounded. Isolate hazard area and restrict access. Try to work upwind of spill. Avoid direct contact with material. Wear appropriate breathing apparatus (if applicable) and protective clothing. Stop leak only if safe to do so. Dike and contain land spills; contain water spills by booming. Use water fog to knock down vapours; contain runoff. For large spills, remove by mechanical means and place in appropriate containers for disposal. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal. Flush area with water to remove trace residue.

## 7. HANDLING AND STORAGE

**Handling:** Hot surfaces may be sufficient to ignite liquid even in the absence of sparks or flames. Vapours may accumulate and travel to distant ignition sources and flashback. Empty containers may contain hazardous product residues. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapours are gone. Do not pressurize drum containers to empty them. Air-dry contaminated clothing in a well ventilated area before laundering. Avoid breathing vapours and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse.

**Storage:** Store in a cool, dry, well ventilated area, away from heat and ignition sources. Use explosion-proof ventilation to prevent vapour accumulation.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Electrical and mechanical equipment should be explosion proof. Concentrations in air should be maintained below lower explosive limit at all times or below the recommended threshold limit value if unprotected personnel are involved. Local ventilation recommended where mechanical ventilation is ineffective in controlling airborne concentrations below the recommended occupational exposure limit. For personnel entry into confined spaces (i.e. bulk storage tanks) a proper confined space entry procedure must be followed including ventilation and testing of tank atmosphere. Make up air should always be supplied to balance air exhausted (either generally or locally).

**Respiratory Protection:** If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Use a NIOSH-approved chemical cartridge respirator with organic vapour cartridges or use a NIOSH-approved supplied-air respirator. For high airbourne concentrations, use a NIOSH -approved supplied-air respirator, either self-contained or airline breathing apparatus, operated in positive pressure mode.

**Gloves:** Impervious gloves.

**Skin Protection:** In confined spaces or where the risk of skin exposure is much higher, impervious clothing should be worn.

**Eyes:** Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.

**Other Personal Protection Data:** Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Solvent Naphtha (petroleum), Medium Aliph.	Not available.	Not available.	Not Available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Color:** Clear

**Odor:** Hydrocarbon odour.

**pH** Not Available.

**Specific Gravity:** 0.79

**Boiling Point:** 150-205 °C / 302-401 °F

**Freezing/Melting Point:** Not Available.

**Vapor Pressure:** 2 mm Hg @ 20 deg C

**Vapor Density:** 4.8

**% Volatile by Volume:** Not Available.

**Evaporation Rate:** 0.13 @ 20 deg C

**Solubility:** Negligible.

**VOCs (lbs/gallon):** Not Available.

**Viscosity:** 1.33 cSt @ 20 deg C

**Molecular Weight:** Not Available.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Avoid excessive heat, open flames and all ignition sources.

**Materials to Avoid:** Oxidizing agents.

**Hazardous Decomposition Products:** Not available.

**Additional Information:** No additional remark.

## 11. TOXICOLOGICAL INFORMATION

**Principle Routes of Exposure**

**Ingestion:** None known

**Skin Contact:** Prolonged or repeated contact may cause defatting and drying of the skin.

**Inhalation:** Vapours are moderately irritating to the respiratory passages. In rare cases may sensitize heart muscle causing heart arrythmia. The liquid when accidentally aspirated into the lungs can cause a severe inflammation of the lung.

**Eye Contact:** Vapours are moderately irritating to the eyes.

**Additional Information:**

**Acute Test of Product:**

**Acute Oral LD50:** >8ml/kg

**Acute Dermal LD50:** >4ml/kg(Rat)

**Acute Inhalation LC50:** >14100 mg/m<sup>3</sup> for 4 hours (Rat)

**Carcinogenicity:**

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Solvent Naphtha (petroleum), Medium Aliph.	Not listed.	Not listed.

**Carcinogenicity Comment:** No additional information available.

**Genotoxicity:** Not Available.

**Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity:** Not Available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:**

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Solvent Naphtha (petroleum), Medium Aliph.	Not Available.	Not Available.	Not Available.

**Other Information:** Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Spill areas must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life. Biodegrades easily in water.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Waste Method:** Waste management priorities (depending on volumes and concentration of waste) are : 1. recycle (reprocess), 2. energy recovery (cement kilns, thermal power generation), 3. incineration, 4. disposal at a licensed waste disposal facility. Do not attempt to combust waste on site. Incinerate at a licensed waste disposal site with approval of environmental authority.

**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

## 14. TRANSPORT INFORMATION

**DOT (U.S.):**

**DOT Shipping Name:** Petroleum Distillates, n.o.s. (Mineral Spirits)

**DOT Hazardous Class** 3

**DOT UN Number:** UN1268

**DOT Packing Group:** III

**DOT Reportable Quantity (lbs):** Not available.

**Marine Pollutant:** No.

**ICAO/IATA:**

**IATA Proper Shipping Name:** Petroleum Distillates, n.o.s. (Mineral Spirits)

**IATA Hazard Class:** 3

**UN Number:** UN1268

**Packing Group:** III

**IATA Label:** Flammable liquid.

**Remarks:** No additional remark.

**IMDG:**

**IMDG Proper Shipping Name:** Petroleum Distillates, n.o.s. (Mineral Spirits)

**Hazard Class:** 3

**UN Number:** UN1268

**Packing Group:** III

**Marine Pollutant:** No.

**IMDG Label:** Flammable liquid.

**Remarks:** Not regulated under the Transportation of Dangerous Goods Act when transported by road, rail or a ship on a domestic voyage, in packagings or containers of 450 L or less (waste excluded).

**TDG (Canada):**

**TDG Proper Shipping Name:** Petroleum Distillates, n.o.s. (Mineral Spirits)

**Hazard Class:** 3

**UN Number:** UN1268

**Packing Group:** III

**Note:** Not regulated under the Transportation of Dangerous Goods Act when transported by road or rail in packagings or containers of 450 L or less (waste excluded).

**Marine Pollutant:** No.

## 15. REGULATORY INFORMATION

**U.S. TSCA Inventory Status:** All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

**Canadian DSL Inventory Status:** All components of this product are either on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL) or exempt.

### U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Solvent Naphtha (petroleum), Medium Aliph.	Not Listed.	Not Listed.	Not Listed.

**California Proposition 65:** Not Listed.

**MA Right to Know List:** Not Listed.

**New Jersey Right-to-Know List:** Not Listed.

**Pennsylvania Right to Know List:** Not Listed.

**WHMIS Hazardous Class:**

B3 COMBUSTIBLE LIQUIDS

D2B TOXIC MATERIALS



## 16. OTHER INFORMATION

**Additional Information:**

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

**Disclaimer:**

**NOTICE TO READER:**

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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Univar Sales Office.

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**\*\*\*END OF MSDS\*\*\***