

ScanScience

MATERIAL SAFETY DATA SHEET

1. Product ID: LUMINA

Application: Scanning fluid
Distributed By: ScanScience

65413 Cty Rd 3
Orangeville, On
L9W 2Y9

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Preparation date of MSDS: April 2006 Rev. March 14, 2008
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Potential Acute Health Effects:

Eye Contact: Slightly irritating, but will not injure eye tissue.

Skin Contact: Low toxicity. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Skin contact may aggravate an existing dermatitis condition.

Inhalation: High vapour / aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.

Ingestion: Low toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death.

2. COMPOSITION / INFORMATION OF INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Paraffin Petroleum Distillate	100	100 Dermal LD50 (Rabbit) 3160 mg/kg Oral LD50 (Rat) 5000 mg/kg
64742-48-9		
Note: No additional remark.		

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

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Skin Contact: Low toxicity. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Skin contact may aggravate an existing dermatitis condition.

Inhalation: High vapour/aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.

Ingestion: Low toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death.

4. FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water until irritation subsides. If irritation persists or signs of toxicity occur, seek medical attention.

Skin Contact: in case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

Inhalation: Move person to fresh air. Administer artificial respiration if breathing has stopped. Allow victim to rest in a well-ventilated area. Seek immediate medical attention

Ingestion: Do not induce vomiting. Seek immediate medical attention.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point: 44 °C / 111 °F

Flash Point Method: Tag Closed Cup

Autoignition Temperature: 365 °C / 689 °F

Flammable Limits in Air (%): Lower: 0.7 Upper: 5.6

Extinguishing Media: Use DRY chemicals, CO₂, alcohol foam or water spray.

Special Exposure Hazards: Combustible. May release vapours that form flammable mixtures at or above the flash point. Use water spray to cool fire-exposed containers and structures. Shut off fuel to fire. Avoid spraying water directly into storage containers due to danger of boil over. This liquid is volatile and gives off invisible vapors. Either the liquid or vapour may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Hazardous Decomposition/Combustion Materials (under fire conditions): Not available.

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

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 2, INSTABILITY 0

HMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 2, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.

Procedure for Clean Up: LAND SPILL: Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof motor or hand pump), or by using a suitable absorbent.

WATER SPILL: Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.

7. HANDLING AND STORAGE

Handling: Ensure proper electrical grounding procedures are in place. Keep the containers closed when not in use. Handle and open containers with care. DO NOT handle or store near an open flame, heat, or other sources of ignition. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark (ignition source). DO NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Although this a low toxicity product we recommend that all volatile materials such as this should be used with ventilation to the outdoors, particularly when used for prolonged periods of time.

Gloves: None needed, but if you suffer from dry- sensitive skin, wearing appropriate chemical resistant gloves should be used to prevent de-fatting of the skin.

Ingredients	Exposure Limit	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
	ACGIH		
Heavy Paraffin Petroleum Distillate	Recommended a TWA of 1200 mg/m ³ (175 ppm) based on total hydrocarbon.	Not available.	Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear
Aromatic content %	0.01 max
Flash Point Deg. C / F	44 /111
Physical State:	Liquid
Colour:	Clear Colourless
Odour:	Very Faint / None.
pH	Not Available.
Specific Gravity:	0.75
Boiling Point:	163-176°C / 325-348°F
Freezing/Melting Point:	-57 °C / -70 °F
Vapour Pressure:	Not Available.
Vapour Density:	5.03
% Volatile by Volume:	Not Available.
Evaporation Rate:	Not Available.
Solubility:	Negligible.
VOCs:	Not Available.
Viscosity:	Not Available.
Molecular Weight:	145

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: None known

Additional Information:

No additional remark.

11. TOXICOLOGICAL INFORMATION

Ingestion: Low toxicity.

Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death.

Skin Contact: Low toxicity.

Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Skin contact may aggravate an existing dermatitis condition.

Inhalation: High vapour/aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.

Eye Contact: Slightly irritating, but will not injure eye tissue.

Additional Information: Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

Acute Test of Product:

Acute Oral LD50: Not Available.

Acute Dermal LD50: Not Available.

Acute Inhalation LC50: Not Available.

Carcinogenicity:

Ingredients : Heavy Petroleum Distillates

IARC - Carcinogens: Not Listed

ACGIH - Carcinogens : Not Listed

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity: Teratogenicity, Embryotoxicity, Mutagenicity: Not Available.

12. ECOLOGICAL INFORMATION

Ecotoxicity – Fish Species: Not available

Acute crustaceans Toxicity: Not available

Fresh Water Algae Data: Not available

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

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, no.5. (Heavy Naphtha)
DOT Hazardous Class 3
DOT UN Number: UN 1268
DOT Packing Group: III
DOT Reportable Quantity (Ibs): Not Applicable.
Note: No additional remark.
Marine Pollutant: No.

TDG (Canada):
TDG Proper Shipping Name: PETROLEUM DISTILLATES, N.OS.
Hazard Class: 3
UN Number: UN1268
Packing Group: III

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)

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), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules

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