

## Safety Data Sheet

Printing date 10.12.2007

Revision: 10.12.2007

**1 Identification of the substance/preparation and of the company/undertaking****1 LeoLight Inc. Head Office**

8481 Keele Street, Unit #4 Concord, Ontario, Canada L4K 1Z7

[P] 905-482-8579

[F] 905-482-9345

[T] 1-877-888-9558

[W] www.leolight.net

**2 Hazards identification**

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**3 Composition/information on ingredients**

- **Chemical characterization**
- **Description:**  
Mixture of substances listed below with nonhazardous additions.  
For the wording of the listed risk phrases refer to section 16.
- **Dangerous components:** Not applicable

· **Non-dangerous component:**

CAS: 90622-46-1 EINECS: 292-448-0	Alkanes, C14-1-6	70,0%
CAS: 8042-47-5 EINECS: 232-455-8	white mineral oil	30,0%

**4 First aid measures**

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately rinse with water.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

**5 Fire-fighting measures**

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 2)

## Safety Data Sheet

Printing date 10.12.2007

Revision: 10.12.2007

**Trade name: liquid wax cartridge**

(Contd. of page 1)

- **Protective equipment:**  
Wear fully protective suit.  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.

**6 Accidental release measures**

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous substances are released.

**7 Handling and storage**

- **Handling:**
- **Information for safe handling:**  
Keep away from heat and direct sunlight.  
Avoid the formation of oil haze.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Protect from heat.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from flammable substances.
- **Further information about storage conditions:** Protect from heat and direct sunlight.

**8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

**8042-47-5 white mineral oil**PEL (USA) Short-term value: 5 mg/m<sup>3</sup>

- **DNELs** Not available
- **PNECs** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 3)

## Safety Data Sheet

Printing date 10.12.2007

Revision: 10.12.2007

Trade name: liquid wax cartridge

(Contd. of page 2)

· **Eye protection:** Goggles recommended during refilling**9 Physical and chemical properties**· **General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	water-white, oily
<b>Odour:</b>	mild hydrocarbon

· **Change in condition**

<b>Melting point/Melting range:</b>	$\leq 3$ °C
<b>Boiling point/Boiling range:</b>	252 ~ 283°C

· **Flash point:**  $\geq 121$  °C· **Flammability (solid, gaseous):** Not available· **Ignition temperature:** Not available· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

<b>Lower:</b>	0,5 Vol%
<b>Upper:</b>	7 Vol%

· **Oxidizing properties:** Not available· **Vapour pressure:** Not available· **Density:** 0,798 g/cm<sup>3</sup>· **Relative density:** Not available· **Vapour density:** Not available· **Evaporation rate:** Not available· **Solubility in / Miscibility with water:**

Not available

· **pH-value:** 7· **Segregation coefficient (n-octanol/water):** Not available· **Viscosity:**· **Dynamic:** 2,5~2,7 mPas**10 Stability and reactivity**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Dangerous reactions:** No dangerous reactions known.· **Dangerous decomposition products:** No dangerous decomposition products known.**11 Toxicological information**· **Acute toxicity:**· **LD/LC50 values relevant for classification:**

8042-47-5 white mineral oil

Oral	LD50	>5000 mg/kg (rat)
------	------	-------------------

· **Primary irritant effect:**· **on the skin:** Irritating effect possible· **on the eye:** Irritating effect possible· **Sensitization:** Sensitization possible.

(Contd. on page 4)

## Safety Data Sheet

Printing date 10.12.2007

Revision: 10.12.2007

Trade name: liquid wax cartridge

(Contd. of page 3)

· **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

- **Toxicokinetics, metabolism and distribution** Not available
- **Acute effects (acute toxicity, irritation and corrosivity)** Not available
- **Repeated dose toxicity** Not available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not available

**12 Ecological information**

· **Information about elimination (persistence and degradability):** Not available

· **Behaviour in environmental systems:**

· **Mobility and bioaccumulation potential:** Not available

· **Ecotoxicological effects:**

· **Acquatic toxicity:** Not available

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **PBT assessments** Not available

**13 Disposal considerations**

· **Product:**

· **Recommendation** Smaller quantities can be disposed of with household waste.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** -

· **Danger code (Kemler):** -

· **UN-Number:** -

· **Hazard label:** -

· **Description of goods:** -

· **Limited quantities (LQ)** -

· **Transport category** -

· **Tunnel restriction code** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **UN Number:** -

· **Label** -

· **Packaging group:** -

· **EMS Number:** -

· **Marine pollutant:** No

· **Proper shipping name:** -

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **UN/ID Number:** -

· **Label** -

· **Packaging group:** -

(Contd. on page 5)

## Safety Data Sheet

Printing date 10.12.2007

Revision: 10.12.2007

Trade name: liquid wax cartridge

(Contd. of page 4)

· Proper shipping name: -

**15 Regulatory information**

· Sara

· Section 355(extremely hazardous substances):

None of the ingredients is listed.

· Section 313(Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA(Toxic Substances Control Act):

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA(Environmental Protection Agency)

None of the ingredients is listed.

· IARC(International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP(National Toxicology Program)

None of the ingredients is listed.

· TLV(Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca(National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca(Occupational Safety &amp; Health Administration)

None of the ingredients is listed.

· Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product has not been classified and marked in accordance with EU Directives / respective national laws.

**16 Other information**

. \*\*\*\*\*

The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.

(Contd. on page 6)

EU

# Safety Data Sheet

Printing date 10.12.2007

Revision: 10.12.2007

**Trade name: liquid wax cartridge**

(Contd. of page 5)

**DISCLAIMER OF LIABILITY**

*The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.*

.\*\*\*\*\*

*End of document*

EU