SAFETY DATA SHEET

LUMEA LIQUID WAX CANDLES

Issued: 13/10/2011
Revision No. 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product name: LUMEA LIQUID WAX CANDLES
Use of substance / preparation: LUMEA LIQUID WAX CANDLES
Company name:
Flomatic t/a Renovate Ltd
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2. HAZARD IDENTIFICATION

Main hazard: R65 – harmful: may cause lung damage if swallowed.
Appearance: Clear (water-white), oily liquid, essentially odourless. Exposure to fire can generate toxic fumes.
Precautionary labelling: Label appears on outer carton.
Harmful: may cause lung damage if swallowed. Keep out of the reach of children. If swallowed, do not induce vomiting, seek medical advice immediately and show this container or label. For small children, a single sip of lamp oil or even sucking the wick can cause life-threatening lung damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Conc. (%w/w)	Classification
Alkanes, C14–16	292-448-0	90622-46-1	100%	Harmful (Xn)

This chemical has been pre-registered for REACH with the ECHA (European Chemicals Agency).
3.2/3) No components are listed at a concentration > or = 0.1% as carcinogens or potential carcinogens. This product, as manufactured, does not contain polychlorinated biphenyl's (PCB's)

4. FIRST AID MEASURES (SYMPTOMS)

If swallowed, seek immediate medical attention.

Skin contact: May cause skin irritation or dermatitis upon prolonged contact.
Eye contact: Eye irritant upon direct contact.
Ingestion: Low viscosity material – if swallowed it may enter the lungs, causing serious lung damage and possibly death.
Inhalation: Exposure to a high concentration of vapours may cause headaches, dizziness, anaesthesia, drowsiness, unconsciousness and other CNS effects, including death.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove contaminated clothing. Wash the skin immediately with soap and water. Wash clothing before wearing again. Seek medical attention promptly if irritation continues. If product has been injected into or under the skin seek urgent medical attention.

Eye contact: Immediately flush eyes clear with plenty of water, lifting the eyelids to ensure entire eye area is cleansed. Continue rinsing for 15 minutes or until irritation subsides. Ensure any contact lenses are removed prior to rinsing eyes. If irritation persists seek medical attention.

Ingestion: Seek medical attention immediately. **Do not induce vomiting**. **Do not make an unconscious person vomit or take fluids.** If vomiting occurs, keep head low so that stomach contents do not get into the lungs. If person is conscious, get them to drink plenty of water, provide warmth and fresh air until medical support arrives.

Inhalation: Move the exposed person to fresh air at once. Seek medical attention if person is in discomfort, overcome by vapour, experiencing respiratory irritation, dizziness, nausea or unconsciousness. If breathing is irregular or has stopped start resuscitation and administer oxygen if available, seek medical attention immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Fire can be put out using foam, water spray (fog), dry chemical or carbon dioxide extinguishers or sand, etc. **Do not** use a direct water jet as this will scatter and spread the fire.

Special fire fighting procedures: Use foam, water spray, and dry chemical or carbon dioxide fire extinguishers to put out the fire. **Do not** use a direct water jet as this will scatter and spread the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapours and to provide protection for persons attempting to stop the leak. Water spray may be used to flush spills away. Try to avoid breathing gases, vapours or fumes.

Protective measures: For fires in confined or enclosed spaces, fire-fighters must wear self-contained breathing apparatus and full protective clothing. Plan a fire protection and response strategy through consultation with your local fire protection authority.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Remove all sources of ignition. Ventilate area. Avoid breathing vapours. Wear appropriate protective clothing (as specified in section 8).

Environmental precautions: Do not allow spilled materials to enter drains, low-lying areas or other water sources. Advice appropriate authorities if it has spilled or it contaminates soil or vegetation.

Clean-up procedures: Wear necessary protective equipment. Contain spill with a suitable absorbent material, such as vermiculite or dry sand and place into containers. Dispose of in accordance with local authority regulations via a licensed waste carrier. Do not contaminate water sources or sewers. Spilled material may make surfaces slippery and may thus be hazardous.

7. HANDLING AND STORAGE

Usage precautions:	Liquid is volatile and gives off invisible vapours. Either the liquid or vapour may settle in low areas or travel some distance on the ground or a surface to ignition sources, where they may ignite or explode. Keep product away from all ignition sources such as heat, sparks, pilot lights, static electricity and open flames. Keep product away from strong oxidants. Avoid spilling, skin and eye contact. Use in a well-ventilated area. Protective clothing should be regularly inspected and maintained, overalls should be laundered. Discard oil-saturated articles. Ensure all equipment is electrically grounded before beginning transfer operations.
Storage precautions:	Store in the original sealed liquid wax cartridge in a cool (above 8°C (48°F) and below 38°C (100°F)), dry well-ventilated place. Store away from acids and oxidizing materials.
Additional precautions:	Do not use electronic devices in the storage area. Empty liquid wax cartridges contain a residue (liquid and/or vapour) and this can be hazardous. Do not attempt to refill cartridges. Dispose of the sealed cartridge in an environmentally safe manner. **Do not tamper with the sealed liquid wax cartridge. Do not expose the liquid wax cartridge to heat or other sources of ignition.**
Handling requirements:	Ensure there is sufficient ventilation of the area.
Storage conditions:	Store in cool, well-ventilated area.
Suitable packaging:	Must only be kept in original packaging.
Specific uses:	Liquid Wax Candles – to be used in Lumea Candle Lamps only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	No exposure limits have been established for this product. We would advise a limit of 5mg/m3 for exposure to mists of this product.
Exposure controls:	**Do not smoke**. Ensure there is adequate ventilation. Promptly remove any clothing that becomes contaminated. Wash skin immediately with soap and water if it becomes contaminated. Use appropriate skin cream to prevent drying of the skin. Precautionary labelling: Harmful: may cause lung damage if swallowed. Keep out of the reach of children. If swallowed, do not induce vomiting, seek medical advice immediately and show this container or label. For small children, a single sip of lamp oil or even sucking the wick can cause life-threatening lung damage.
Occupational exposure controls:	Under normal conditions of use, no special protection for skin or eyes is required. In the case of exposure/contamination: wear chemical splash goggles and/or a face shield, protective gloves and appropriate protective clothing to prevent any possibility of liquid contact or repeated or prolonged vapour contact. NIOSH-approved vapour air-purifying respirator or other approved respiratory apparatus must be worn when there may be potential for over-exposure.
Eye protection:	Wear approved chemical safety goggles where eye exposure is reasonably probable.
Hygiene protection:	Wash hands after handling. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
Personal protection:	When using do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colourless low-viscosity liquid

Odour:	Mild, paraffinic
pH:	7 (neutral)
Boiling point:	200–300°C (pressure 760mm Hg)
Flash point (°C):	121°C
Auto ignition temperature (°C):	216°C
Flammability limit – lower (%)	0.5%
Flammability limit – upper (%):	7%
Explosive properties:	Not known
Oxidising properties:	Not known
Vapour pressure:	<1mm Hg @ 37.8°C
Relative density:	0.77 @ 15°C
Solubility:	Soluble in oil
Water solubility:	Insoluble
Partition coefficient:	Log POW = >6.
Viscosity:	2.5–2.7 cSt @ 40°C (104°F)
Vapour density:	7–8 (air = 1)
Evaporation rate:	<0.1 (butyl acetate = 1)
Melting point:	8°C

10. STABILYTY AND REACTIVITY

Stability:	Stable under normal temperature conditions
Conditions to avoid:	Avoid heat, naked flames and other sources of ignition.
Materials to avoid:	Avoid contact with acids and oxidising substances.
Hazardous decomposition products	Product does not decompose at ambient temperatures. Fire produces toxic gases/vapours/fumes of carbon dioxide (CO2) and carbon monoxide (CO).

11. TOXICOLOGICAL INFORMATION

Inhalation:	Acute 4 hours LC50 (rat): >5.8 mg/I Unlikely to present an inhalation hazard at ambient temperatures when in the form of a bulk liquid. May cause chemical pheumonitis if inhaled in large quantities in the form of fine droplet sprays, mists or aerosols.
Skin contact:	Primary irritation index (rabbit): 4.4 (max. 8). Acute dermal LD50 (rabbit): >2000 mg/kg May cause cracking of skin and eczema. Prolonged or repeated exposure may cause severe irritation.
Eye contact:	Primary irritation index – 1 hour (rabbit with unwashed eyes): 5.7 (max. 110) Primary irritation index – 1 hour (rabbit with washed eyes): 6 (max. 110) Product is an irritant and may cause redness and pain.
Ingestion:	Acute oral LD50 (rat): >5000 mg/kg Liquid irritates mucous membranes and may cause abdominal pain if swallowed.
Carcinogenicity:	Product contains no carcinogenic substances.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Although not toxic to vertebrates and invertebrates, spilled material may affect

organisms (especially small invertebrates) by physical smothering or by leading to de-oxygenation of water below oil films.

LC50 96 hours fish: >1000 mg/l

IC50 72 hours algae: >1000 mg/l

Mobility: Water: Insoluble; product spreads over the surface of the water and will slowly evaporate.

Soil: Product has only slight mobility in soil and will partially evaporate.

Persistence & degradability: Not known.

Bio-accumulative potential: Will not bio-accumulate.

Results of PBT assessment: n/a

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

General information: Do not puncture or incinerate even when empty.

Disposal methods: Dispose of empty/used liquid wax cartridges in accordance with local authority requirements and in an environmentally safe manner. Empty cartridges contain a liquid and/or vapour residue and this can be hazardous. Do not attempt to refill.

14. TRANSPORT INFORMATION

General: **This product is classified as non-hazardous by DOT regulations; there is no applicable UN transportation number. This product is not classified as dangerous goods as defined by IATA for air transportation.**

Signage:	No transport warning sign required	**UN no. road:**	None
ADR class:	Not classified for transportation	**Marine pollutant:**	No

15. REGULATORY INFORMATION

Labelling:

Risk phrases: R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

Contains: Alkanes

Safety phrases: S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

UK regulatory references: UK Health & Safety at Work Act 1974

EU directives: Dangerous Substances Directive 67/548/EEC

Statutory instruments: Chemicals (Hazardous Information and Packaging for Supply) Regulations (CHIP) 2002

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) EC 1907/2006

16. OTHER INFORMATION

Additional labelling for Lumea Liquid Wax Candles:	For small children a single sip of lamp oil or even sucking the wick can cause life-threatening lung damage. Do not breathe vapour. Avoid contact with skin. If swallowed, do not induce vomiting. Never leave a burning oil lamp unattended.
Legal disclaimer:	The information on this sheet is limited to the product/material identified and is believed by Flomatic t/a Renovate Ltd to be correct based on its knowledge and information as of the date noted. Flomatic t/a Renovate Ltd makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy themselves that they are suitable and complete for their purposes.