



SAFETY DATA SHEET
HOLLOWICK LAMP FUEL
USED IN: HD10, HD12TALL, HD26 & HD2618HL
DISPOSABLE CELLS

Inhalation: Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion: May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis. May act as a laxative.

Target organs

Eyes. Skin.

Chronic effects

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Concentration	Classification DSD/CLP	Specific concentrations limit
White mineral oil (petroleum)	8042-47-5	232-455-8	-	10-60%	Not classified	
Alkanes, C14-16	90622-46-1	292-448-0	-	30 - 90%	Xn; R65	-
					Asp. 1 H304	-

4. FIRST AID MEASURES

Description of first aid measures

- General advice** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.
- Following eye contact** If splashed into eyes, flush with clear water for 15 minutes, or until irritation subsides. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
- Following skin contact** Remove contaminated clothing. Launder before reuse. Wash skin with soap and water. Obtain medical attention if irritation persists. Remove contaminated clothing. Launder before reuse.
- Following inhalation** If symptoms develop move victim to fresh air. If breathing has stopped, administer artificial respiration, and seek medical attention immediately. If indicated, administer cardiopulmonary resuscitation. If symptoms persist, obtain medical attention.
- Following ingestion** Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Prolonged/repetitive skin contact may cause redness, drying, defatting and cracking of the skin.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Symptoms may be delayed.
Medical conditions which may be aggravated by exposure: Sensitive skin. Skin contact may aggravate an existing dermatitis.
Variability Among Individuals: 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



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liquids, vapors, mists or fumes should be minimized.

5. FIREFIGHTING MEASURES

Extinguishing media	Suitable: Dry chemical, carbon dioxide, foam, steam or water fog
Unsuitable extinguishing media:	Water streams will scatter liquid and spread fire, but may be used to keep fire-exposed containers and surroundings cool.
Special hazards	May create dense smoke during combustion
Fire hazard:	Mild fire hazard when heated above its flash point; material must be preheated before ignition will occur (OSHA Class III B).
Advice for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus. Stop source of fuel. Shut off ignition sources. Keep exposed containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Remove all sources of ignition.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods and material for containment and cleaning up	<u>For containment</u> Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Contain the spill. <u>For cleaning up</u> Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.
Reference to other sections	See precautions in section 7 and 8.

7. HANDLING AND STORAGE

Precautions for safe handling	Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in a closed container away from incompatible materials.
Specific end use(s)	Not applicable



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limit values

Component	Type	Value
Oil mist	TWA	5 mg/m ³

Exposure controls

Appropriate engineering controls

General ventilation normally adequate. Use only with ventilation sufficient to prevent exceeding recommended exposure limit. Keep containers and storage containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants.

Personal protection

Respiratory protection: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection is not required under conditions of normal use. Wear an organic vapor respirator with a mist filter if vapor, mist or spray is generated.

Hand protection: Rubber gloves. Confirm with a reputable supplier first.

Eye protection: Eye protection is not required under conditions of normal use. Wear safety glasses with side shields when splashing may occur.

Body protection: Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact. Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse.

Environmental exposure controls

Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information of basic physical and chemical properties

Physical state	Clear, liquid
Color	Water white
Odor	Odorless
Odor threshold	Not available
pH	Not available
Melting point	Not available
Boiling point	248 - 284°C (478 - 544°F)
Flash point	> 93.33°C (>200°F)
Evaporation rate	Not available
Flammability	Not available
Auto ignition temperature	≥ 204 °C (≥ 400°F)



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Upper/lower flammability or explosive limits	Lower limit in air, by volume: 0.5% Upper limit in air, by volume: 7%
Explosive properties	Not available
Oxidizing properties	Not available
Vapor pressure	<0.1 mmHg at 20°C/68°F (API Calculation)
Vapor density	> 5 (Air = 1)
Relative density	Not available
Solubility in water	Negligible
Other Solvents	Not available
Partition coefficient (n-octanol/water)	Not available
Decomposition temperature	Not available
Viscosity	Kinematic viscosity less than 20.5 mm ² /s measured at 40°C, 100 Saybolt Universal Seconds at 100°F

Other information

Specific gravity : < 1

10. STABILITY AND REACTIVITY

Reactivity	This product may react with strong oxidizing agents.
Chemical stability	Stable under recommended storage conditions. This product is stable and will not react violently with water.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidizers.
Hazardous decomposition materials	May include and are not limited to: oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Oral

LD₅₀ (rat): > 5,000mg/kg

Harmful: May cause lung damage if swallowed. Product has a low order of acute oral and dermal toxicity, but as with most light liquid petroleum hydrocarbons, small amounts aspirated into the lungs during ingestion or vomiting may cause pulmonary injury: aspiration of material into lungs can cause chemical pneumonitis. May act as a laxative. May cause stomach distress, nausea or vomiting.

Inhalation

Alkanes, C₁₄₋₁₆: LC₅₀ (rat): > 5.8 mg/1

White mineral oil (petroleum): Not available

Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Inhalation of mist or spray may be harmful.



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Irritation	<p><u>For the skin:</u> May cause irritation. Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation, reddening of skin progressing to dermatitis.</p> <p><u>For the eye:</u> This product may cause slight irritation to the eyes. When tested and evaluated according to FHSA Guidelines (16 CFR 1500.42) using albino rabbits, this product does not demonstrate ocular irritation potential.</p>
Corrosivity	Based on the available information on irritation, the mixture has no corrosive properties.
Sensitisation	Not available
Mutagenicity	Not available
Carcinogenicity	Studies indicate no carcinogenic properties.
Toxicity for reproduction	Not available
Repeated dose toxicity	Repeated exposure may cause skin dryness or cracking.
Aspiration toxicity	May be fatal if swallowed and enters airways

12. ECOLOGICAL INFORMATION

Toxicity	<ul style="list-style-type: none"><i>White mineral oil (petroleum):</i> <u>Fish:</u> <i>Lepomis macrochirus</i>: LC₅₀ (96 h) 10000 mg/L<i>Alkanes:</i> <u>Fish (<i>Pimephales promelas</i>):</u> considered relatively non-toxic as demonstrated by a no significant effect at any concentration of the water soluble fraction of C13-C16 normal paraffins to fathead minnows and water-fleas. <u>Algae, Bacteria, Protozoa:</u> low toxicity
Persistence and degradability	<ul style="list-style-type: none"><i>Alkanes:</i> Readily biodegradable. Normal paraffins are removed by volatilization, sorption to sediment/soil and biodegradation. OECD Test Guideline 301F (28 d): 82% Test substance LINPAR 1417 Biodegradation half-lives in water systems range from < 15 to 30 days (10 day window met)
Bio accumulative potential	Not available
Mobility in soil	Not available
Results of PBT and vPvB assessment	Not available
Other adverse effects	Not available

13. DISPOSAL CONSIDERATIONS

Waste Code	Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements
Disposal methods	Dispose of only in accordance with local, state, and federal regulations
Empty containers	Empty containers retain product residue. Dispose of in the same manner as the product.



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Empty Containers should not be refilled

14. TRANSPORT INFORMATION

General Information Not regulated by U.S. DOT, Canadian TODG, IMO/IMDG, ICAO/IATA, ADR/RID

UN Number	-
UN proper shipping name	-
Transport hazard classes	-
Packing group	-
Environmental hazards	-
Land transport (ADR/RID)	Not regulated
On land waterway craft (ADN/ADNR)	Not regulated
Marine transport (IMDG)	Not regulated
Air transport (IATA)	Not regulated
Special precautions for user	Not available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not available

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Non-European regulations

OSHA Hazards See Section 2

TSCA inventory listing

Component/CAS:

C₁₄₋₁₆ Normal Paraffin / 90622-46-1

Paraffinic White Mineral Oil / 8042-47-5

SARA 302 Status

Component: Contains no chemicals subject to SARA 302 reporting.

SARA 311/312 Classification

Inmediate (acute) health hazard.

SARA 313 Chemicals

Component: Contains no chemicals subject to SARA 313 reporting.

CERCLA Hazardous Substance (40 CFR 302)

Contains no chemicals on the CERCLA Hazardous Substance list.

Hazard Ratings NFPA

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard: -



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State Regulations

California Prop.65 Components none

Canadian federal regulations

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.

WHMIS status: Not Controlled

Domestic Substances List (DSL): Yes

Non-Domestic Substances List (NDSL): No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Chemical safety assessment

A chemical safety assessment has not been conducted on the substances contained in the mixture by the supplier.

16. OTHER INFORMATION

Date of Publication: June 1st, 2015 revised February 9, 2017

This information is based on our present knowledge and is provided according to the relevant EC and national regulations. This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product.