



OIL TECHNICS LIMITED

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MATERIAL SAFETY DATA SHEET

PRODUCT

HDL

1. DESCRIPTION / PROPERTIES (nature, reactivity):

A blended solvent cleaner containing no aromatic materials, and of very low toxicity. Designed for the cleaning of electrical and mechanical components, and for removal of light oil films and greasy carbon residues. Very fast drying characteristics. Compatible with most industrial and engineering materials including metals, alloys, plastics and most surface finishes and sealants.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	WEL
Hydrocarbon solvent	*	*	90 → 100%	Xn	R65, R66, R53	-

* Proprietary status pending

3. HAZARD IDENTIFICATION

a) **Fire/Explosion Hazard (stability, flammability, combustion products):**

Product is flammable. Flash point 41°C. Closed cup. Not recommended for use on live electrical circuits.

b) **Health Hazard (inhalation, ingestion, contact with skin or eyes):**

Harmful may cause lung damage if swallowed. May be harmful by prolonged contact with the skin and could cause skin dryness and cracking. **Must not be ingested.**

c) **Environmental hazard:**

May cause long-term adverse effects in the aquatic environment. This material is a VOC.

4. FIRST AID MEASURES

- INHALATION** - Using approved respiratory protection, immediately remove patient from exposure. Rest and keep warm. If symptoms persist, call for prompt medical attention.
- SKIN CONTACT** - Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
- EYE CONTACT** - Irrigate with plenty of clean water. Obtain medical advice.
- INGESTION** - Do not swallow, wash out mouth with water. If swallowed drink water and obtain medical attention. **Do not induce vomiting.**

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Since the product is flammable, if involved in a fire, use extinguishing media appropriate to the source of the fire. Do not use water in a jet, which may spread the fire.

Protection for fire fighters:

Wear self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Remove all sources of ignition. Mark out contaminated area with signs and prevent access to unauthorised personnel.

Environmental Precautions:

Prevent discharge of large quantities to drain or water courses.

Clean up Procedures:

Disperse small spillages with large excess of water. Large spillages - contain, absorb and pick up, place in sealed containers for disposal via licensed contractor. Wash down traces with excess of water.

7. HANDLING AND STORAGE

Handling:

Do not handle or store near open flame, sources of heat or ignition. Protect material from direct sunlight.

Storage:

May be stored for periods over six months in plastic containers as supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended Component Exposure Limits:

Component Name	Concentration in preparation	8 hour exposure limit	Short term exposure limit
Hydrocarbon solvent	90 → 100%	1200mg/m ³ (calculated)	-

Workplace Exposure limits: Calculation procedure EH40 2005.

Engineering Controls: Provide eyewash station

Personal Protection: Respiratory: Half face filter with filter material type 'A' recommended.

Hand: Use protective gloves made of neoprene or nitrile.

Eyes: Wear safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Density at 15 ⁰ C	: 0.751 kg/Litre
Vapour Pressure at 20 ⁰ C	: 0.3kPa
Vapour Pressure at 38 ⁰ C	: 0.7kPa
Vapour Pressure at 50 ⁰ C	: 1.3kPa
Solubility in water at 20 ⁰ C	: <0.10wt%
pH value	: Not applicable
Flash point	: 41 ⁰ C closed cup
Auto ignition temperature	: >200 ⁰ C
Explosive Limits in Air	: 0.6-7.0vol%
Thermal Decomposition	: Carbon Dioxide, Carbon Monoxide, Smoke
Hazardous reactions	: Avoid strong oxidisers

10. STABILITY AND REACTIVITY

Stability: Stable.

Materials to avoid: Avoid contact with strong oxidisers

Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

Respiratory: Vapour concentrations above recommended exposure levels are irritating to eyes and the respiratory tract, may cause headaches, dizziness and anaesthesia.

Skin: May cause irritation on prolonged or repeated skin contact.

Eyes: May cause irritation.

Ingestion: Small amounts of liquid aspirated into respiratory system during ingestion or from vomiting may caused bronchopneumonia or pulmonary oedema.

12. ECOLOGICAL INFORMATION

Environmental mobility:

This substance is highly volatile and will rapidly evaporate to the air if released into the environment.

Degradability:

Biodegrades at a moderate rate and is 'inherently' biodegradable according to OECD guidelines.

Bioaccumulation:

No bioaccumulation is expected.

13. DISPOSAL CONSIDERATION

Disposal Methods: Disperse small spillages with large excess of water. Return unwanted material to the supplier. Not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned in appropriate equipment.

14. TRANSPORT INFORMATION

Hydrocarbons liquid n.o.s. (Contains C9-C12 alkanes). UN No 3295 Class 3 packing group III Flammable material for transportation. Flash Point 41°C (Closed Cup)

15. REGULATORY INFORMATION

Xn: Harmful.

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|------|--|
| R10 | Flammable |
| R53 | May cause long term adverse effects in the aquatic environment. |
| R65 | Harmful: May cause lung damage if swallowed. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| S23 | Do not breathe gas/fumes/vapour/spray. |
| S24 | Avoid contact with the skin |
| S43A | In case of fire use sand, earth, chemical powder or foam. |
| S61 | Avoid release to the environment. |
| S62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container. |

Regulatory Information:

UK Regulatory References: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

EH40/2005: Workplace Exposure Limits 2005.

EC Directives: Dangerous Preparations Directive (1999/45/EC).

Safety Data Sheets Directive (2001/58/EC).

Approved Code of Practice: The Compilation of Safety Data Sheets.

16. OTHER INFORMATION

PLEASE NOTE:

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.

Signature: _____

Date: 11th April 2007