

Trend Routing Technology Inc. 7351 West Friendly Avenue, Suite A, Greensboro NC 27410 USA Tel: 336 292 5051	
PAGE 1 of 8	MATERIAL SAFETY DATA SHEET
VERSION: 2.2	DIAMOND ABRASIVE LAPPING FLUID
	COPIED: NJM
	ISSUE DATE: JUNE 30TH, 2010

OSHA "HAZARD COMMUNICATION" (29 CFR 1910.1200)

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product name:	Lapping Fluid	
Product ref:	DWS/LF/100, DWS/LF/250 & DWS/LF/500	
Application:	Lapping fluid for use with diamond abrasive sharpening stones.	
Suppliers trade names:	JBMA Diamond Abrasive Lapping Fluid Engis UK JOKE Hyprez OS Fluid	
Formulation:	990-140/2	
Supplier:	Engis UK Ltd 9 Centenary Business Park Station Road Henley On-Thames Oxon RG9 1DS United Kingdom	Engis Corporation 105 W. Hintz Road Wheeling IL 60090 USA
	Tel: 0044 (0) 1491 411117 Fax: 0044 (0) 1491 412252	(847)-808-9400 (847)-808-9430
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family: Petroleum Distillate.

Ingredient Name	CAS No.	REACH (EINECS) Reg. No.	Wt (%)	Health (Class)	Risk Phrase (R. No.)
Isoparaffinic Hydrocarbon	64742-47-8	265-149-8	40% - 70%	Xn	R65
Isoparaffinic Hydrocarbon	64742-48-9	265-150-3	20% - 50%	Xn	R65

3. HAZARDS IDENTIFICATION

Skin: May cause mild skin irritation. Repeated contact may cause dermatitis.

Eyes: Vapor is irritating to the eyes. Liquid may cause moderate irritation, redness and tearing.

Inhalation: Drowsiness, dizziness, nasal and respiratory irritation.

Ingestion: Harmful. May cause lung damage if swallowed (chemical pneumonia).

Physical/chemical hazard: Empty containers may contain residues, which can cause an incendiary discharge.

Fire and explosion hazard: Moderate hazard. Product can release vapors or form flammable mixtures at temperatures at or above the flashpoint.

Environmental hazard: Not applicable.

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4. FIRST-AID MEASURES

Skin contact: Wash thoroughly with soap and water. Remove contaminated clothing and laundry before reuse.

Eye contact: Flush thoroughly with water until irritation subsides, lifting upper and lower lids to facilitate cleansing. If irritation persists, seek medical assistance.

Ingestion: Do not induce vomiting. Keep person at rest and seek immediate medical attention.

Inhalation: Remove individual to fresh air. If breathing is difficult, administer oxygen and seek medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use water spray to cool surfaces exposed to fire to disperse vapors and to protect personnel attempting to stop any leakage. Extinguish the fire with foam, dry chemical or carbon dioxide.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, various oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Eliminate source of ignition.
Prevent liquid from entering sewers, water courses or low areas.
Keep personnel/public away. If possible, shut off source of release without further hazard.
Advise authorities if liquid has entered sewers, water courses or has contaminated soil.

Clean-up procedures: Contain spilled liquid with absorbent material.
Take up absorbed material and place into suitable container for disposal.

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Consult an expert on disposal of recovered material to ensure conformity to local regulations.

7. HANDLING AND STORAGE

Storage temperature:	Ambient.
Transport temperature:	Ambient.
Storage pressure:	Atmospheric.
Electrostatic accumulation hazard:	Yes. Use proper grounding procedures for bulk storage.
Materials/coatings compatibility:	Glass, carbon steel, stainless steel, polyethylene, polypropylene, polyester.
Materials/coatings unsuitable:	Strong oxidizing agents (acids), natural rubber, butyl rubber, EPDM, polystyrene. Testing for compatibility with specific plastic materials is recommended.
General notes:	Keep container closed. Store in well ventilated area away from incompatible materials. Do not expose liquid or vapors to open flame, heat or sources of ignition. Empty product containers may contain residues (liquid/vapor). Do not re-use containers without adequate cleaning.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure limit (WEL):	300 ppm for Petroleum Hydrocarbon components. For open systems (liquid or spray) where contact is likely, wear safety glasses with side shields, long sleeves and plastic gloves. Provide sufficient local exhaust and general ventilation to maintain exposure below WEL, especially for spraying operations producing mists. Where
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concentrations in air may exceed WEL and the engineering practices are not adequate to accomplish exposure reduction, approved respirators may be necessary to prevent overexposure by inhalation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Thin liquid.
Odour:	Mild, characteristic.
Freezing point:	Not determined.
Boiling range:	376°F-483°F (191°C - 251°C).
Percentage volatile:	35%.
Specific gravity:	0.8 gm/cc.
Flashpoint ASTM D56:	144°F (63°C).
Auto-ignition temperature:	640°F (338°C).
Viscosity:	4-5 cps.
Eation rate:	Slower than water.
Solubility in water:	Dispersible.
Vapor density:	Heavier than air.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal temperatures and pressure. Hazardous polymerization will not occur. Not reactive at normal temperatures and pressures.
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11. TOXICOLOGICAL INFORMATION

Target organ effects: Not available.

Development Information: Not available.

Cancer information: Not available.

Other health effects: Not available.

12. ECOLOGICAL INFORMATION

Environmental degradability: Based upon data for similar substances or estimated data, this product is to biodegrade slowly. This product is expected to be removed in a wastewater treatment facility.

Ecotoxicity: Based upon data for similar substances or estimated data, no acute toxicity to aquatic organisms is expected at the maximum water solubility of this product. Long term adverse effects to aquatic organisms are not expected.

13. DISPOSAL CONSIDERATIONS

Product disposal method: Care should be taken to ensure compliance with EC, national and Local Regulations. This product is not suitable for disposal by landfill, municipal sewers, drains, natural streams or rivers. Waste product must be disposed of via an authorized waster disposal company in accordance with Local and National Waste Disposal Regulations.

Packaging disposal: Dispose of in accordance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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14. TRANSPORT INFORMATION

Land transport

ADR/RID: Not hazardous.

GGVS/GGVE: Not hazardous.

Maritime transport

IMDG: Not hazardous.

GGV Sea: Not hazardous.

Air Transport

ICAO: Not hazardous.

IATA: Not hazardous.

15. REGULATORY INFORMATION

Carriage: None.

Classification: Harmful.

Symbol: Xn

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

Safety phrases: S37: Wear suitable gloves.
 S51: Use only in well ventilated areas.
 S62: If swallowed, do not induce vomiting, seek medical advice immediately and show the container and label.

16. OTHER INFORMATION

User notes: Sections revised: - header

Information sources: Supplier's own safety data sheet, issued 05/26/09 Ref 918 CHIP. MSDS format to American National Standards Institute (ANSI) approved an alternative format and published a standard Z400.1-1993.

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Trend UK Lapping Fluid MSDS v5.1 dated May 27th 2009.

Revisions comments: Address and date updated

Trend MSDS ref: LEAF/HS/U*DWSLF

Legal disclaimer: The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the stage of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Trend Routing Technology Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.