LAPPING FLUID
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

LEAF/HS/DWSLF

Date of issue: 14th June 2019 | Revision date:14th June 2019 | Replaces version 9.2 dated: 14th June 2019 | Version:9.3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Mixture
Product name	:	Lapping fluid, Hyprez OS Fluid (SDS no:284)
Product code	:	DWS/LF/100, DWS/LF/250, DWS/LF/500, Hyprez OS Fluid 990-140/2
Formulation	:	990-140/2

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec	:	Industrial grinding and polishing.

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

Trend Machinery & Cutting Tools Ltd
Unit 6 Odhams Trading Estate
St. Albans Road
Watford
Herts
United Kingdom
T 0044 1923 249911
F 0044 1923 236879
technical@trendm.co.uk www.trend-uk.com

1.4. Emergency telephone number

Emergency number	:	0044 1491 411117 Engis UK Ltd Only available during office hours 9am to 5pm Monday to Friday UK time

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aspiration Toxicant - Category 1

2.2. Label elements

:

Signal word (GHS)	:	Danger
Hazard phrases (GHS)	:	H304 - May be fatal if swallowed and enters airways.
	:	EUH066 - Repeated exposure may cause skin dryness or cracking.
Precautionary phrases (GHS)	:	No phrases apply.
Response phrases (GHS)	:	P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	:	P331 - Do NOT induce vomiting.
Storage and disposal phrases (GHS)	:	P405 - Store locked up.
	:	P501 - Dispose of contents/container in a safe manner in accordance with local, regional, national and/or international regulations.

2.3. Adverse human health effects and symptoms

2.3.1 Inhalation	:	May cause respiratory irritation.
2.3.2 Skin contact	:	May cause skin irritation. Prolonged or repeated skin contact may cause dermatitis.
2.3.3 Eye contact	:	May cause eye irritation.

2.3.4 Ingestion : May be fatal if swallowed and enters airways.

Additional Information : EUH statements are considered Supplemental Hazard Statements which are required by the EU CLP registration only, and are not applicable/required in countries outside of Europe.

SECTION 3: Composition/information on ingredients

CAS Hazardous components (Chemical	Product identifier	Concentration	GHS Classification
Hydrotreated light distillate (petroleum)	(CAS No) 64742-47-8 (EC No) 265-149-8 (EC Index No) 649-422-00-2	45.0 - 55.0%	Asp. Tox - Cat.1 H304 EUH066
Hydrotreated heavy naphtha	(CAS No) 64742-48-9 (EC No) 265-150-3 (EC Index No) 649-327-00-6	30.0 - 40.0%	Asp. Tox - Cat.1 H304 Flam. Liq. 4:H227 EUH066

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove individual to fresh air. If breathing is difficult, administer oxygen and seek medial attention.

First-aid measures after skin contact : Wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

First-aid measures after eye contact : Flush thoroughly with water until irritation subsides, lifting upper and lower lids to facilitate cleansing. If irritation persists seek medical attention.

First-aid measures after ingestion : Do NOT induce vomiting. Keep person at rest. Immediately call a POISON CENTER or doctor/physician.

Note for the doctor : Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use foam, dry chemical, or carbon dioxide.

Unsuitable extinguishing media : Solid streams of water or a high volume water jet may spread fire.

5.2. Special hazards arising from the substance or mixture

Flammable properties and hazards : No data available.

Hazardous **Combustion** products : High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, various oxides of carbon.

Flash point : 62.2°C (144F) Method used: Closed cup.

Explosive limits : LEL: No data UEL: No data

Auto ignition point : 337.8°C (640F)

5.3. Advice for firefighters

Firefighting instructions : As in any fire, wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved and full protective equipment. Use water spray to cool surfaces exposed to fire, to disperse vapours, and to protect personnel attempting to stop any leakage.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment : Use proper personal protective equipment as indicated in Section 8.

6.2. Environmental precautions

Prevent liquid from entering sewers, water courses or low areas. Notify authorities if liquid enters sewers or public waters or has contaminated soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Keep personnel/public away. If possible, shut off sources of release without further hazard. Contain spilled liquid with absorbent material. Take up absorbed material and place into suitable container for disposal.Store in a partly filled closed container, until disposal. Consult an expert on disposal of recovered material to ensure conformity to local regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing spray or mist. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, dry well-ventilated area away from incompatible substances. Store at ambient room temperature. Keep away from sources of ignition. Keep away from heat and flame. Store in a tightly closed container. Keep container closed when not in use.

Compatible materials : Glass, carbon steel, stainless steel, polyethylene, polypropylene, polyester. Testing for compatibility with specific plastic materials is recommended.

Other Precautions : Storage class (TRGS 510) Combustible Liquids.Handle in accordance with good industrial hygeine and safety practices. Keep out of reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Exposure Parameters

Name	Jurisdiction	Recommended	Notations
Hydrotreated light distillate (petroleum) (CAS No) 64742-47-8	ACGIH TLV	TLV: 200 mg/m3	
	Germany MAK/TRK	TWA: 140 mg/m3 (20 ppn)	
		TWA: 5 mg/m3 R/F (Fume or dust)	
Hydrotreated heavy naphtha (CAS No) 64742-48-9	Belgium OEL	TWA: 525 mg/m3	
	Switzerland OEL	TWA: 525 mg/m3 (100pm)	
	Germany MAK/TRK	TWA: 300 mg/m3 (50 ppm); STEL: 600 mg/m3 (100 ppm) (15	
	Denmark OEL	TWA: 100 ppm; TWA 145 mg/m3	
	Spain OEL	TWA: 290 mg/m3 (50ppm); STEL: 580 mg/m3 (100ppm)	Skin absorption
	Latvia OEL	TWA: 200 mg/m3; STEL: 300 mg/m3 (15 min)	
	OSHA PELs	TWA: 400 mg/m3 (100 ppm)	
	Poland	TWA: 300 mg/m3; STEL: 900 mg/m3 (15 min)	
	Sweden OEL	TWA: 300 mg/m3 (-50 ppm); STEL: 600 mg/m3 (-100 ppm)	

8.2. Exposure controls

8.2.1 Engineering controls : Ensure adequate ventilation, especially in confined areas. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

8.2.2 Personal protective equipment: : Avoid all unnecessary exposure. Gloves. Protective glasses. Protective clothing.

Hand protection : Wear protective gloves (neoprene, natural rubber) to prevent skin exposure.

Eye protection : Safety glasses.

Skin and body protection : Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection (specific type) : No special respiratory protection is needed under normal conditions of use with adequate ventilation. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker heath, an approved respirator may be appropriate.

Work/hygienic/maintenance practices : Handle in accordance with good industrial hygiene and safety practices.

Other information : Do not eat or drink during use.

8.2.3 Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.	
Appearance	: Thin fluid.	
Colour	: Blue.	
Odour	: Odourless.	
Odour threshold	: No data available.	
pH	: Not applicable.	
Evaporation rate	: < 1.0 (H20=1)	
Melting point	: Not applicable.	
Boiling point	: 191-250.6°C (376-483°F)	
Flash point (ASTM D Closed Cup)	: 62.2°C (144° F)	Method used = closed cup
Auto ignition point	: 338° C (640° F)	
Decomposition temperature	: Not applicable.	
Flammability (solid, gas)	: No data available.	
Vapour pressure (vs. air or mm Hg)	: Not applicable.	
Vapour density (vs. Air=1)	: Not applicable.	
Density	: Not applicable.	
Bulk density	: Not applicable.	
Solubility in water	: No data	
Solulibity notes	: Dispersible in water	
Viscosity	: 4-5 CPS	
Explosive limits	: LEL: No data.	UEL: No data available.
Specific gravity (water=1)	: 0.8 gm/cc	
Octanol/water partition coefficient	: No data available.	

9.2. Other information

Percent volatile	: >90%
VOC/volume	: Not applicable.
Particle size	: Not applicable.
Heat value	: Not applicable.
Corrosion rate	: Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive at normal temperatures and pressures.

10.2. Stability

Stable at normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid - instability

High temperatures, Ignition sources. Incompatible materials.

10.5. Materials to avoid - incompatibility

Strong oxidising agents, acids.

10.6. Hazardous decomposition of byproducts

High temperatures and fire conditions can result in the formation of carbon monoxide, carbon dioxide and various other oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Epidemiology	: No data available.
Teratogenicity	: No data available.
Reproductive effects	: No data available.
Mutagenicity	: No data available.
Neurotoxicity	: No data available.

Other studies:

CAS No. 64742-47-8	: Acute Toxicity, LD50, Oral, Rat, >5000. MG/KG.
	: Acute Toxicity, LC50, Inhalation, Rat, >5000. MG/M3, 4 H.
	: Acute Toxicity, LD50, Dermal, Rabbit, >5000. MG/KG.
CAS No. 64742-48-9	: Acute Toxicity, LD50, Oral, Rat, >5000. MG/KG.
	Acute Toxicity, LC50, Inhalation, Rat, >5000. MG/M3, 8 H.
	: Acute Toxicity, LD50, Dermal, Rabbit, >5000. MG/KG.

Irritation or corrosion	: May cause skin irritation. May cause eye irritation. May cause respiratory irritation.		
Symptoms related to toxicological characteristics	: May be fatal if swallowed and enters airways.		
Chronic toxicological sensitization	: Not reported.		
Chronic toxicological effects	: Prolonged or repeated skin contact may cause dermatitis. Overexposure to the components of this product has been suggested as a cause of kidney damage in laboratory animals.		
Carcinogenicity	: NTP? No	IARC Monographs?	OSHA regulated? No

Name	NTP	IARC	ACGIH
Hydrotreated light distillate (petroleum) (CAS No)	n/a	n/a	A4
Hydrotreated heavy naphtha (CAS No) 64742-48-9	n/a	n/a	n/a

Name	OSHA		
Hydrotreated light distillate (petroleum) (CAS No)	n/a		
Hydrotreated heavy naphtha (CAS No) 64742-48-9	n/a		

SECTION 12: Ecological information

12.1. Toxicity

Environmental : No information available.
Physical : No information available.

Other studies:

CAS No. 64742-48-9 : No-observable-effect-level, Water Flea (Daphnia magna), 1.000 MG/L, 21 D.
No-observable-effect-level, Green Algae (Pseudokirchneriella subcapitata), 1000. MG/L, 72 H. Result: Data for similar materials.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal method : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local environmental regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

14.1. Land Transport (European ADR/RID)

ADR/RID Shipping Name : Not regulated.
UN-No. :
Hazard class :

14.2. Marine Transport (IMDG/IMO)

IMDG/IMO Shipping Name : Not regulated.

14.3. Air Transport (ICAO/IATA)

ICAO/IATA Shipping Name : Not regulated.

SECTION 15 : Regulatory information

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

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

Name (Hazardous components) CAS no	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
Hydrotreated light distillate (petroleum) (CAS No) 64742-47-8	No	No	No
Hydrotreated heavy naphtha (CAS No) 64742-48-9	No	No	No

Name (Hazardous Components) CAS no	Other US EPA or State Lists
Hydrotreated light distillate (petroleum) (CAS No) 64742-47-8	TSCA: Yes - Inventory
Hydrotreated heavy naphtha (CAS No) 64742-48-9	TSCA: Yes - Inventory

15.1.2. National regulations

Name (Hazardous components) CAS no	International Regulatory Lists
Hydrotreated light distillate (petroleum) (CAS No) 64742-47-8	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes; -9-1702; Japan ISHL: No; Korea ECL: Yes - KE-12550; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 5350; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - (R), (P); C2, M2; Rotterdam: No; Stockholm: No
Hydrotreated heavy naphtha (CAS No) 64742-48-9	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes; -9-1702; Japan ISHL: No; Korea ECL: Yes - KE-25622; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - (R), (P), C2 , M2; Rotterdam: No; Stockholm: No

Regulatory Information : WGK classification of this product/mixture is WGK1 according to Annex 4. Number 3. (Computation Rule) of the Administrative Regulation on the Classification of Substances Hazardous to Water (VwVwS).

SECTION 16: Other information

Revision date	: 14/06/19
User notes	: Sections revised 1, 16 Revision due to change in regulations.
Data sources	: Regulation (EC) No. 1272/2008 Classification. This mixture has been classified using methods as described in Article 9(4) of Regulations (EC) No.1272/2008.
Other information	: Suppliers own data sheet (Engis UK Ltd), issued 22nd Nov 2016, previous revision date 31 Oct 2016.
Trend SDS reference	: LEAF/HS/DWSLF

Full text of H- and EUH-phrases:

Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 4	Flammable liquids, Category 4
H227	Combustable liquid.
H304	May be fatal if swallowed and enters airways
EUH066	Repeated exposure may cause skin dryness or cracking.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental