

Date of issue: 07th Nov 2016

Revision date: 07th Nov 2016 Replaces version 6 Version:7.0
dated: 28th May 2015**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture
Product name : Diamond Abrasive Lapping fluid, JOKE Hyprex OS Fluid (SDS no:918)
Product code : DWS/LF/100, DWS/LF/250, DWS/LF/500, JOKE Hyprex OS Fluid 990-140/2
Formulation : 990-140/2
Chemical family : Petroleum Distillates

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

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 H304
Flammable Liquids - Category 4 H227

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS08

Signal word (CLP/GHS) : Danger
Hazardous ingredients : Hydrotreated light distillate (petroleum), Hydrotreated heavy naphtha
Hazard phrases (CLP/GHS) : H227 - Combustible liquid.
: H304 - May be fatal if swallowed and enters airways.
: EUH066 - Repeated exposure may cause skin dryness or cracking.
Precautionary phrases (CLP/GHS) : P101 - If medical advice is needed, have product container or label at hand.
: P102 - Keep out of reach of children.
: P103 - Read label before use.
: P210 - Keep away from flames and hot surfaces - No smoking.
: P271 - Use only outdoors or in a well-ventilated area.
: P280 - Wear protective gloves, protective clothing, eye/face protection.
Response phrases (GHS) : P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
: P331 - Do NOT induce vomiting.
: P370 + P378 - In case of fire: use water fog, foam, dry chemical or carbon dioxide (CO2) for extinction.
Storage and disposal phrases (GHS) : P405 - Store locked up.

Date of issue: 07th Nov 2016

Revision date: 07th Nov 2016 Replaces version 6 Version:7.0
dated: 28th May 2015

: 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

3.1. Substances

Not applicable.

3.2. Mixture

Name	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
Propanol, [2-(2-Methoxymethylethoxy)methylethoxy	(CAS No) 25498-49-1 (EC No) 247-045-4 (EC Index No) N/A	5.0 - 9.0%	Eye damage 2B: H320

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove individual to fresh air. If breathing is difficult, administer oxygen and seek medical 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 decomposition products : High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, various oxides of carbon.
- Flash point : 66.2°C (144F) Method used: ASTM D Closed cup.
- Explosive limits : LEL: No data UEL: No data
- Auto ignition point : 338°C (640F)

5.3. Advice for firefighters

- Firefighting instructions : Use water spray to cool surfaces exposed to fire, to disperse vapours, and to protect personnel attempting to stop any leakage.

Date of issue: 07th Nov 2016

Revision date: 07th Nov 2016 Replaces version 6 Version:7.0
dated: 28th May 2015

Protection during firefighting : As in any fire, wear self-contained breathing apparatus in pressure-demand. EN/MSHA/NIOSH approved and full protective equipment.

5.4. Additional information

No additional information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures : Evacuate unnecessary personnel. If possible, shut off source of release without further hazard.

6.1.2. For emergency responders

Protective equipment : Use proper personal protective equipment as indicated in Section 6.
Emergency procedures : Ventilate area.

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 solid.

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

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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.

Hygiene measures : Do no eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

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 only in the original container. Keep container closed when not in use.

Incompatible products : Strong oxidising agents (acids). Testing for compatibility with specific plastic materials is recommended.

Incompatible materials : No data available.

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

7.3. Specific end use(s)

Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Exposure Parameters

Name	Jurisdiction	Recommended Exposure Limits	Notations
Hydrotreated light distillate (petroleum) (CAS No) 64742-47-8	ACGIH TLV	TLV: 200 mg/m ³	
	Germany MAK/TRK	TWA: 140 mg/m ³ (20 ppn)	
		TWA: 5 mg/m ³ R/F (Fume or dust)	

Date of issue: 07th Nov 2016

Revision date: 07th Nov 2016 Replaces version 6
dated: 28th May 2015

Version:7.0

Hydrotreated heavy naphtha (CAS No) 64742-48-9	Germany MAK/TRK	TWA: 300 mg/m3 (50 ppm)	
		STEL: 600 mg/m3 (100 ppm) (15 min)	
	OSHA PELs	TWA: 40 mg/m3 (100 ppm)	
		TWA: 40 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.

Eye protection

: Safety glasses.

Skin and body protection

: Protective clothing.

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 health, an approved respirator may be appropriate.



Work/hygienic/maintenance practices

: Handle in accordance with good industrial hygiene and safety practice.

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	: Slower than water.	
Melting point	: Not applicable.	
Freezing point	: No data available.	
Boiling point	: 191-251°C (376-483°F)	
Flash point (ASTM D Closed Cup)	: 62.2°C (144° F)	
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)	: Heavier than air.	
Density	: Not applicable.	
Bulk density	: Not applicable.	
Solubility in water	: Dispersible.	
Viscosity	: 4-5 CPS	
Explosive limits	: LEL: No data.	UEL: No data available.
Oxidising properties	: No data available.	
Explosive limits	: No data available.	
Specific gravity (water=1)	: 0.8 gm/cc	
Partition co-efficient	: No data available.	
Octanol/water partition coefficient	: No data available.	

9.2. Other information

Percent volatile	: >90%
VOC/volume	: Not applicable.
Particle size	: Not applicable.

Date of issue: 07th Nov 2016

Revision date: 07th Nov 2016 Replaces version 6 Version:7.0
dated: 28th May 2015

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. 25498-49-1 : Acute Toxicity, LD50, Oral, Rat, 3200 mg/kg.
CAS No. 64742-47-8 : Acute Toxicity, LD50, Oral, Rat, >3200. MG/KG.
: Acute Toxicity, LD50, 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/M3, 8 H.
: Acute Toxicity, LD50, Dermal, Rabbit, >5000. MG/KG.
CAS No. 25498-49-1 : Acute Toxicity, LD50, Dermal, Rabbit, 15440. MG/KG.
: Acute Toxicity, LD50, Oral, Rat, 3400 MG/KG.

Irritation or corrosion : May cause skin irritation. May cause eye irritation. May cause respiratory
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
No

Name	NTP	IARC	ACGIH
Hydrotreated light distillate (petroleum) (CAS No) 64742-47-8	n/a	n/a	A4
Hydrotreated heavy naphtha (CAS No) 64742-48-9	n/a	n/a	n/a
Propanol, [2-(2-Methoxymethylethoxy)methylethoxy] (CAS No) 25498-49-1	n/a	n/a	n/a

Name	OSHA		
Hydrotreated light distillate (petroleum) (CAS No) 64742-47-8	n/a		
Hydrotreated heavy naphtha (CAS No) 64742-48-9	n/a		
Propanol, [2-(2-Methoxymethylethoxy)methylethoxy] (CAS No) 25498-49-1	n/a		

11.2. Other information

No data available

SECTION 12: Ecological information

Date of issue: 07th Nov 2016

Revision date: 07th Nov 2016 Replaces version 6 Version:7.0
dated: 28th May 2015**12.1. Toxicity**Environmental : No information available.
Physical : No information available.

Other studies:

CAS No. 64742-47-8 : LC50, Bluegill (*Leopomis macrochirus*), 2200 ug/L 4D.
LC50, Rainbow trout (*Oncorhynchus mykiss*), 2900 ug/L 96H.

CAS No. 64742-47-8 : LC50, Bluegill (*Leopomis macrochirus*), 2200 UG/L, 4 D, Mortality, Water temperature: 24.00°C (75.2° F) C, pH: 7.50; Nalco D-2303 Study (PC Code 064210). Matri, 1968
: LC50, Rainbow trout (*Oncorhynchus mykiss*), 2600. UG/L 4 d, Mortality, Water temperature: 13.00 ° C (55.4° F) C, pH: 7.30, Nalco D-2303 Study (PC Code 064210), Matri, 1968

CAS No. 64742-48-9 : No-observable-effect-level, Water Flea (*Daphnia magna*), 1.000 MG/L, 21 D.

CAS No. 25498-49-1 : LC50, Fathead Minnow (*Pimephales promelas*), > 100.0 MG/L, 96 H.
LC50, Water Flea (*Daphnia magna*), . 100.0 MG/L, 48 H.
Effective concentration of 50% of test organism., Water Flea (*Daphnia magna*), 322.453 MG/L.

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 recommendations : Dispose in a safe manner in accordance with local/national regulations.
Dispose of contents/container to Dispose in a safe manner in accordance with local/national regulations.

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.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IMO / IATA / ICAO

14.1. UN numberUN-No : Not regulated.
UN-No.(IATA) : Not regulated.
UN-No. (IMDG) : Not regulated.**14.2. UN proper shipping name**

Proper Shipping Name : Not regulated.

14.3. Transport hazard class(es)Class (UN) : Not regulated.
Class (IATA) : Not regulated.
Class (IMDG) : Not regulated.
Hazard labels (UN) : Not regulated.**14.4. Packing group**

Packing group (UN) : Not regulated.

Date of issue: 07th Nov 2016

Revision date: 07th Nov 2016 Replaces version 6 Version:7.0
dated: 28th May 2015

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
Propanol, (2-(2-Methoxymethylethoxy)methylethoxy)- (CAS No) 25498-49-1	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		
Propanol, [2-(2-Methoxymethylethoxy)methylethoxy] (CAS No) 25498-49-1	TSCA: Yes - Inventory, 8D TERM		

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; -2-10; 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); Kyoto GHG: No; 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; -2-10; 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); Kyoto GHG: No; Rotterdam: No; Stockholm: No
Propanol, [2-(2-Methoxymethylethoxy)methylethoxy] (CAS No) 25498-49-1	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes; -2-438; Japan ISHL: No; Korea ECL: Yes - KE-23313; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 5350; Switzerland Giftliste 1: Yes - G-3032; Switzerland INNS: No; REACH: Yes - (R), (P); Kyoto GHG: No; 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 : 07/11/2016
 User notes : Sections revised 1 to 14, 16
 Revision due to change in regulations
 Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
 Other information : Suppliers own data sheet (Engis UK Ltd), issued 31/10/2016, previous revision date 30/05/16.
 Trend SDS reference : LEAF/HS/DWSLF

Full text of, H- and EUH-phrases:

H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways - Aspiration toxicant, Category 1
H320	

LAPPING FLUID
Safety Data Sheet

according to Regulation (EC) No. 453/2010

LEAF/HS/DWSLF

Date of issue: 07th Nov 2016

Revision date: 07th Nov 2016 Replaces version 6 Version:7.0
dated: 28th May 2015

EUH0066	Repeated exposure may cause skin dryness or cracking
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 4	Combustible Liquid
Eye Dam 2B	Serious eye damage/eye irritation, Category 2B

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 requirements only. It should not therefore be construed as guaranteeing any specific property of the product.