

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product name	Liquimatic D 46
Product number	7067
Internal identification	GHS21469
REACH registration number	n/a Mixture
1.2. Relevant identified uses of	f the substance or mixture and uses advised against
Identified uses	Transmission and Hydraulic oil
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of t	he safety data sheet
Supplier	Morris Lubricants Castle Foregate Shrewsbury Shropshire SY1 2EL +44 (0) 1743 232200 +44 (0) 1743 353584 sds@morris-lubricants.co.uk
Manufacturer	MORRIS LUBRICANTS Castle Foregate Shrewsbury Shropshire SY1 2EL UK +44 (0) 1743 232200 +44 (0) 1743 353584 sds@morris-lubricants.co.uk
1.4. Emergency telephone number	
SECTION 2: Hazards identific	ation
2.1. Classification of the substance or mixture	

Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

Classification (67/548/EEC or Not classified 1999/45/EC)

2.2. Label elements

Hazard statements NC Not Classified	Hazard statements	NC Not Classified
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Supplemental label

EUH210 Safety data sheet available on request.

information

## 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum) solvent-dev	waxed heavy paraffinic	30-60%
CAS number: 64742-54-7	EC number: 265-157-1	REACH registration number: 01- 2119484627-25-XXXX
A petroleum product. DMSO extra	act < 3 % weight ( IP 346 )	
Classification	Classification	on (67/548/EEC or 1999/45/EC)
Not Classified	-	
Distillates, hydrotreated heavy par	affinic	10-309
CAS number: 64742-54-7	EC number: 265-157-1	REACH registration number: 01- 2119484627-25-0014
Classification	Classification	on (67/548/EEC or 1999/45/EC)
Asp. Tox. 1 - H304	-	
solvent neutral oils		1-59
CAS number: —		
Classification	Classificatio	on (67/548/EEC or 1999/45/EC)
Asp. Tox. 1 - H304	-	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### **SECTION 4: First aid measures**

4.1. Description of first aid measures	
General information	Get medical attention if any discomfort continues.
Inhalation	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Get medical attention if any discomfort continues. Do not induce vomiting.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
4.2. Most important symptoms	s and effects, both acute and delayed
Inhalation	Upper respiratory irritation.
Ingestion	The product contains mineral oil, which if aspirated into the lungs through vomitting after ingestion, may result in chemical pneumonia.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritation of eyes and mucous membranes.

## 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting meas	ures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fro	om the substance or mixture	
Specific hazards	Heat from fire could result in drums bursting	
Hazardous combustion products	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Oxides of carbon. Oxides of nitrogen.	
5.3. Advice for firefighters		
Protective actions during firefighting	Control run-off water by containing and keeping it out of sewers and watercourses.	
Special protective equipment for firefighters	Wear self-contained breathing apparatus.	
SECTION 6: Accidental releas	e measures	
6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions	For personal protection, see Section 8. Take care as floors and other surfaces may become slippery. Keep unnecessary and unprotected personnel away from the spillage.	
6.2. Environmental precautions	<u>-</u>	
Environmental precautions	The product is insoluble in water and will spread on the water surface. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.	
6.3. Methods and material for	containment and cleaning up	
Methods for cleaning up	In case of spillage on water prevent the spread by use of suitable barrier equipment Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.	
6.4. Reference to other section	<u>IS</u>	
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.	
SECTION 7: Handling and stor	rage	
7.1. Precautions for safe hand	ing	
7.2. Conditions for safe storage	e, including any incompatibilities	
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place.	
Storage class	Miscellaneous hazardous material storage.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure controls	s/Personal protection	

### 8.1. Control parameters

Occupational exposure limits

Distillates (petroleum) solvent-dewaxed heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup> Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup>

### Distillates, hydrotreated heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5 Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup>

### **Mineral Oil**

Long-term exposure limit (8-hour TWA): OES 5 mg/m3(c)

### Distillates (petroleum) hydrotreated heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup> Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup>

## Distillates (petroleum), solvent-dewaxed heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup> Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup> ACGIH = American Conference of Governmental Industrial Hygienists.

### Bis(nonylphenyl)amine (CAS: 36878-20-3)

DNEL	Industry - Dermal; Long term systemic effects: 0.62 mg/kg Industry - Inhalation; Long term systemic effects: 4.37 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 0.31 mg/kg Consumer - Inhalation; Long term systemic effects: 1.09 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 0.31 mg/kg
PNEC	- marine water; 0.01 mg/l - Sediment (Freshwater); 132000 mg/kg - Sediment (Marinewater); 13200 mg/kg - Soil; 263000 mg/kg - Fresh water; 0.1 mg/l
	Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)
DNEL	- Inhalation; : 5.4 mg/m³
PNEC	- ; 9.33 mg/kg
	Reaction products of Dihydro-3-(tetrapropenyl)furan-2,5 dione with Propane-1,2,diol
DNEL	Workers - Dermal; : 4 mg/kg bw/day Consumer - Dermal; : 2 mg/kg bw/day Consumer - Oral; : 0.5 mg/kg bw/day
	1,3,4-Thiadiazole -2(3H)-thione,5-(tert-dodecyldithio)- (CAS: 73984-93-7)
DNEL	Workers - Dermal; : 0.83 mg/kg bw/day Consumer - Oral; : 0.42 mg/kg bw/day Consumer - Dermal; : 0.42 mg/kg bw/day
PNEC	Fresh water; 0.04 mg/l
8.2. Exposure controls	

### Protective equipment



Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.
Hand protection	The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
Thermal hazards	Not anticipated under normal conditions of use. The product is combustible if heated excessively and an ignition source is applied.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

5.1. Information on basic physical and chemical properties	
Appearance	Liquid.
Colour	to Brown.
Odour	Oil-like.
Odour threshold	Not known.
Melting point	-42°C Pour point
Initial boiling point and range	>320°C @ 101.3 kPa
Flash point	196°C Pensky-Martens closed cup.
Evaporation rate	Not relevant.
Upper/lower flammability or explosive limits	Not known.
Other flammability	Product is not flammable but on excessive heating may become combustible.
Relative density	0.873 @ 15.6°C
Solubility(ies)	Insoluble in water. Soluble in the following materials: Organic solvents.
Partition coefficient	Not determined. log Kow:>7 Typical of mineral oil.
Auto-ignition temperature	No specific test data are available.
Decomposition Temperature	Not determined.
Viscosity	46.9 cSt @ 40°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.

Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.	
9.2. Other information		
Volatile organic compound	The product is a complex mixture, the majority of which would not be classed as a VOC. However it cannot be discounted that trace or low levels of VOC's may be present.	
SECTION 10: Stability and rea	ictivity	
10.1. Reactivity		
Reactivity	There are no known reactivity hazards associated with this product.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid heat, flames and other sources of ignition.	
10.5. Incompatible materials		
Materials to avoid	Strong oxidising agents.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	Oxides of carbon. Oxides of nitrogen.	
SECTION 11: Toxicological inf	ormation	
11.1. Information on toxicologi	cal effects	
Acute toxicity - oral		
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.	
Acute toxicity - dermal Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.	
Acute toxicity - inhalation Notes (inhalation LC₅₀)	The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use.	
Serious eye damage/irritation Serious eye damage/irritation	May cause mild, short lasting discomfort to eyes.	
Respiratory sensitisation Respiratory sensitisation	Repeated exposure to oil mists may cause respiratory damage. There is no evidence that the product can cause respiratory hypersensitivity.	
Skin sensitisation Skin sensitisation	Based on available data the classification criteria are not met.	
Carcinogenicity		
Carcinogenicity	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP346 test	

### Reproductive toxicity Reproductive toxicity - fertility No data available to suggest the product will cause reproductive toxicity. Specific target organ toxicity - single exposure STOT - single exposure Based on available data the classification criteria are not met. Specific target organ toxicity - repeated exposure STOT - repeated exposure Based on available data the classification criteria are not met. Aspiration hazard Aspiration hazard Although not classified, the product contains mineral oil. If aspirated into the lungs e.g. through vomiting after ingestion, admit to hospital immediately. **General information** This product has low toxicity. Only large quantities are likely to have adverse effects on human health. Inhalation Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. Ingestion No harmful effects expected from quantities likely to be ingested by accident. Skin contact Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking. Eye contact May cause temporary eye irritation. Acute and chronic health Prolonged or repeated contact with used oil may cause serious skin diseases, such as hazards dermatitis and skin cancer.

SECTION 12: Ecological info	mation
Ecotoxicity	Based on available data the classification criteria are not met. Not regarded as dangerous for the environment.
12.1. Toxicity	
Toxicity	Based on available data the classification criteria are not met. Not considered toxic to fish.
Acute aquatic toxicity Acute toxicity - aquatic invertebrates	Based on available data the classification criteria are not met.
12.2. Persistence and degrad	lability
Stability (hydrolysis)	The product is based on highly refined mineral oils that are considered stable to hydrolysis.
Biodegradation	The product is not considered readily biodegradeable, albeit the major constituents are expected to ultimately biodegrade.
Biological oxygen demand	Not determined.
Chemical oxygen demand	Not determined.
12.3. Bioaccumulative potenti	a
Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Partition coefficient	Not determined. log Kow:>7 Typical of mineral oil.
12.4. Mobility in soil	
Mobility	The product is non-volatile. The product is insoluble in water and will spread on the water surface.
Henry's law constant	Not determined.
12.5. Results of PBT and vPv	Bassessment
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	derations
13.1. Waste treatment metho	ds
Disposal methods	Dispose of waste via a licensed waste disposal contractor.
Waste class	European waste catalogue (EWC) number = 13 02 05* (mineral based non-chlorinated engine, gear & lubricating oils)
SECTION 14: Transport infor	mation
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
14.1. UN number	
Not applicable.	
14.2. UN proper shipping nan	ne
Not applicable.	

### 14.3. Transport hazard class(es)

No transport warning sign required.

## 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National regulations	Health and Safety at Work etc. Act 1974 (as amended). Control of Substances Hazardous to Health Regulations 2002 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). 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 (as amended).
Guidance	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### Inventories

### Canada - DSL/NDSL

All the ingredients are listed or exempt.

### US - TSCA

All the ingredients are listed or exempt.

## Australia - AICS

All the ingredients are listed or exempt.

## Korea - KECI

All the ingredients are listed or exempt.

### China - IECSC

All the ingredients are listed or exempt.

### Philippines – PICCS

All the ingredients are listed or exempt.

#### New Zealand - NZIOC

All the ingredients are listed or exempt.

### SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>CAS: Chemical Abstracts Service.</li> <li>DNEL: Derived No Effect Level.</li> <li>GHS: Globally Harmonized System.</li> <li>IATA: International Air Transport Association.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul>
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Issued by	Regulatory Affairs
Revision date	12/06/2019
Revision	2
Supersedes date	27/11/2015
SDS number	21469
Hazard statements in full	H304 May be fatal if swallowed and enters airways.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.