



## SAFETY DATA SHEET

### Lodexol HPS 75W-90

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

Product name	Lodexol HPS 75W-90
Product No.	7037
Internal Id	11045
REACH Registration number	N/A Mixture

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

Identified uses	Gear oil. Transmission oil.
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##### 1.3. Details of the supplier of the safety data sheet

Supplier	Morris Lubricants Castle Foregate Shrewsbury SY1 2EL T: (+44)(0)1743 232200 F: (+44)(0)1743 353584 sds@morris-lubricants.co.uk
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##### 1.4. Emergency telephone number

+44(0)1743 232200 (08.45 to 17.00 hrs UK time only)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

Classification (1999/45/EEC)	Not classified.
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##### Environment

The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12. The formulated product does not meet classification criteria as this substance is present at a sufficiently low concentration to be below the threshold for classification.

##### Physical and Chemical Hazards

Product is not classed as flammable but is combustible if heated excessively.

##### 2.2. Label elements

Contains	Pentene, 2,4,4,-trimethyl-, sulfurized Reaction products of alkyl dithiophosphoric acid with phosphorous oxide, propylene oxide and amines, C12-14 alkyl (branched)	
Risk Phrases	NC	Not classified.
Safety Phrases	P13 P14a  S60	Safety data sheet available for professional user on request. Contains Olefin sulfide; Phosphoric acid esters/amine salt. May cause an allergic reaction.  This material and its container must be disposed of as hazardous waste.

##### 2.3. Other hazards

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.2. Mixtures



## Lodexol HPS 75W-90

Pentene, 2,4,4,-trimethyl-, sulfurized		1-5%
CAS-No.:	EC No.:	
Classification (EC 1272/2008) Skin Sens. 1 - H317 Aquatic Chronic 4 - H413	Classification (67/548/EEC) R43,R53.	
Reaction products of alkyl dithiophosphoric acid with phosphorous oxide, propylene oxide and amines, C12-14 alkyl (branched)		1-5%
CAS-No.:	EC No.: 931-384-6	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R22. Xi;R41. N;R51/53. R43.	

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

REACH Registration number                      N/A Mixture

Ingredient notes

Complex mixture of performance additives in an oil base.

Composition Comments

The data shown are in accordance with the latest EC Directives.

### SECTION 4: FIRST AID MEASURES

#### **4.1. Description of first aid measures**

General information

Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

Do not induce vomiting. Get medical attention immediately!

Skin contact

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing. Launder before re-use.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for 30 minutes. Get medical attention if any discomfort continues.

#### **4.2. Most important symptoms and effects, both acute and delayed**

General information

Refer to section 11 for other effects.

Inhalation.

Irritation of nose, throat and airway.

Ingestion

Nausea, vomiting. Aspiration into the lungs e.g. through vomiting after ingestion, may result in chemical pneumonia.

Skin contact

May cause sensitization of susceptible persons. Prolonged skin contact may cause redness and irritation.

Eye contact

Prolonged contact may cause redness and/or tearing.

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

Treat symptomatically



**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media**

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrous gases (NO<sub>x</sub>). Sulphurous gases (SO<sub>x</sub>). oxides of phosphorus;  
Other unidentified organic and inorganic gases and compounds, some of which may be toxic.

Unusual Fire & Explosion Hazards

Heat from fire could result in drums bursting

Specific hazards

When heated and in case of fire, harmful vapours/gases may be formed.

**5.3. Advice for firefighters**

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Use air-supplied respirator, gloves and protective goggles.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

In case of spills, beware of slippery floors and surfaces. Wear protective clothing as described in Section 8 of this safety data sheet.

Provide adequate ventilation.

**6.2. Environmental precautions**

Contain spillages with sand, earth or any suitable adsorbent material. Do not allow to enter drains, sewers or watercourses.

**6.3. Methods and material for containment and cleaning up**

Contain spillage with sand or earth. Use sealed containers for reclamation or dispose of at a licenced hazardous waste collection point. Avoid contact with water. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. In case of spillage on water prevent the spread by use of suitable barrier equipment

**6.4. Reference to other sections**

For personal protection, see section 8. For waste disposal, see section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid spilling, skin and eye contact. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

Storage Class

Miscellaneous hazardous material storage.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Ingredient Comments

Contains mineral Oil: Under conditions that may generate mists, observe OSHA PEL of 5mg per cubic meter, ACGIH STEL of 10mg per cubic meter

**8.2. Exposure controls**



## Protective equipment



## Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

## Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

## Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

## Hand protection

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

## Eye protection

If risk of splashing, wear safety goggles or face shield.

## Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

## Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## Skin protection

Wear apron or protective clothing in case of contact.

## Environmental Exposure Controls

See section 6 for details

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Liquid
Colour	Dark Amber.
Odour	Characteristic. Gear Oil.
Solubility	Insoluble in water Soluble in hydrocarbon solvents
Initial boiling point and boiling range	>320
Melting point (°C)	Not applicable. Pour Point = -57C
Relative density	0.871 15.6C
Vapour density (air=1)	>1
Vapour pressure	<0.1 kPa 20
Evaporation rate	< 1 n-butyl acetate =1
pH-Value, Conc. Solution	
Not determined.	
Viscosity	Not water soluble. 104 cSt @ 40C Not water soluble.
Decomposition temperature (°C)	>250
Odour Threshold, Lower	
Not determined.	
Flash point	135C PM Closed cup.
Auto Ignition Temperature (°C)	>320
Flammability Limit - Lower(%)	
Not determined.	



## Lodexol HPS 75W-90

Flammability Limit - Upper(%)

Not determined.

Partition Coefficient

(N-Octanol/Water)

Not determined.

This product is not considered explosive.

Material is considered non-oxidizing.

### **9.2. Other information**

Volatility Description

Not considered volatile. Vapours may be emitted on excessive heating.

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

No specific reactivity hazards associated with this product.

### **10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

### **10.3. Possibility of hazardous reactions**

Unlikely to occur under normal conditions of use.

### **10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

### **10.5. Incompatible materials**

Materials To Avoid

Strong oxidising substances. Strong acids. Strong alkalis.

### **10.6. Hazardous decomposition products**

Thermal decomposition or combustion creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrous gases (NO<sub>x</sub>). Sulphurous gases (SO<sub>x</sub>). Oxides of phosphorus. Other unidentified organic and inorganic gases and compounds some of which may be toxic.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50

> 10, 000 mg/kg (oral rat)

#### **Acute toxicity:**

Acute Toxicity (Oral LD50)

10000 mg/kg Rat

Data is based on information on components and knowledge and experience of this and similar product types.

Acute Toxicity (Dermal LD50)

2000 mg/kg Rat

Data is based on information on components and knowledge and experience of this and similar product types.

The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use.

#### **Serious eye damage/irritation:**

Not expected to cause eye irritation. Based on data from similar materials. Vapours may cause irritation

#### **Respiratory or skin sensitisation:**

Respiratory sensitisation

No information available.

No data available to indicate product or components may be respiratory sensitizers.

The product contains skin sensitizing agents. Test data is available to show the sensitising agents do not induce sensitisation at the levels present in the product.

#### **Germ cell mutagenicity:**

No evidence available to suggest the product is a mutagen.



## Lodexol HPS 75W-90

### Carcinogenicity:

Carcinogenicity

No information available.

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 information available.

No data available to indicate either product or compounds present at greater than 0.1% may cause reproductive toxicity

### Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

No information available.

No data available to indicate product or components present at greater than 1.0% are chronic health hazards

### General information

This product has low toxicity. Only large volumes may have adverse impact on human health.

### Inhalation

Unlikely to be hazardous by inhalation because of the low vapour pressure of the substance at ambient temperature.

### Ingestion

May cause discomfort if swallowed. Aspiration into the lungs (e.g. through vomiting) after ingestion can be hazardous with possible resultant chemically induced pneumonia.

### Skin contact

Risk of sensitisation or allergic reactions among sensitive individuals.

### Eye contact

Spray and vapour in the eyes may cause irritation and smarting.

### Specific effects

Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

It is unlikely that the substance will dissolve in water in amounts big enough to have a toxic effect on fish and daphnies.

### **12.1. Toxicity**

Not determined.

Acute Toxicity - Aquatic Invertebrates

Not determined.

Acute Toxicity - Aquatic Plants

Not determined.

Chronic Toxicity - Aquatic Invertebrates

Not determined.

Chronic effects expected at 10 - 100 mg/l. Data is based on information on components and knowledge and experience of similar product types.

### **12.2. Persistence and degradability**

#### Degradability

The product is not readily biodegradable.

The product is based on highly refined mineral oils that are considered stable to hydrolysis.

#### Biodegradation

Not determined.



**12.3. Bioaccumulative potential**

Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Partition coefficient

Not determined.

**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 known.

**12.5. Results of PBT and vPvB assessment**

Not available

**12.6. Other adverse effects**

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

General	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
Road Transport Notes	Not Classified
Rail Transport Notes	Not classified.
Sea Transport Notes	Not classified.
Air Transport Notes	Not classified.

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable.

**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 MARPOL73/78 and the IBC Code**



Not applicable.

## SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Health and Safety at Work Act 1974.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

Water hazard classification

WGK 2

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 27/07/12

Revision 1

Risk Phrases In Full

NC	Not classified.
R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
Hazard Statements In Full	
H318	Causes serious eye damage.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H413	May cause long lasting harmful effects to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

### Disclaimer

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.