

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 21647 Issue date: 02/04/2024 Revision date: 02/04/2024 Version: 1.0

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

1.1. Product identifier

Product form	: Mixture
Product name	: Lodexol FS 320
Product code	: 7684
Type of product	: Industrial Gear Oil
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use
Use of the substance/mixture	: Lubricants and additives
Function or use category	: Lubricants and additives

Title	Life cycle stage	Use descriptors
General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines)	Industrial, Professional	SU3, PC17, PC24, PROC1, PROC8b, ERC4, ERC7

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Morris Lubricants Castle Foregate SY1 2EL Shrewsbury, Shropshire United Kingdom T +44 (0) 1743 232200 sds@morris-lubricants.co.uk

1.4. Emergency telephone number

Emergency number

: +44 (0) 1743 232200 08.45 - 17.00 GMT

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Precautionary statements (CLP) EUH-statements P501 - Dispose of contents and container to a hazardous or special waste collection point.
 EUH208 - Contains Amines, C10-14-tert-alkyl. May produce an allergic reaction. EUH210 - Safety data sheet available on request.

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2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Octene	CAS-No.: 111-66-0 EC-No.: 203-893-7 REACH-no: 01-2119486877- 14	≥ 70 – < 90	Not classified
Amines, C10-14-tert-alkyl	CAS-No.: 68955-53-3 EC-No.: 701-175-2 REACH-no: 01-2119456798- 18	< 0.1	Acute Tox. 4 (Oral), H302 (ATE=612 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=251 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=1.19 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Get medical advice/attention if you feel unwell. Do NOT induce vomiting.
4.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/effects after inhalation	: None under normal use. Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Although not classified, the product contains mineral oil. If aspirated into the lungs e.g. through vomiting after ingestion, admit to hospital immediately.

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

Treat symptomatically.

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Dry chemical, CO2, dry sand, or alcohol-resistant foam.Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.	
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Carbon dioxide.	
5.3. Advice for firefighters		
Precautionary measures fire Firefighting instructions	 Keep container closed when not in use. Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers. 	
Protection during firefighting	: Self-contained breathing apparatus.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protec	tive equipment and emergency procedures	
General measures	: Clean up any spills as soon as possible, using an absorbent material to collect it.	
6.1.1. For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Evacuate unnecessary personnel. Caution : this product can cause the floor to be very slippery.	
6.1.2. For emergency responders		

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for conta	ainment and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Clear up rapidly by scoop or vacuum. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Notify authorities if product enters sewers or public waters. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storag	e	
7.1. Precautions for safe handling		
Additional hazards when processed Precautions for safe handling Hygiene measures	 Not expected to present a significant hazard under anticipated conditions of normal use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.	

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Storage conditions	: Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep container closed when not in use. Store in a dry place.
Incompatible products Storage area Special rules on packaging	Oxidizing agent. Strong acids. Strong bases.Store in a well-ventilated place.Store in a closed container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or face shield

8.2.2.2. Skin protection

Skin and body protection: Wear protective clothing

Hand protection: Gloves

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical p	properties
9.1. Information on basic physical and cl	hemical properties
9.1. Information on basic physical and cl Physical state Colour Appearance Odour Odour threshold Melting point Freezing point Boiling point Flammability Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH Viscosity, kinematic @ 40°C Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C	 hemical properties Liquid amber. Liquid. mild. Not available Not available Not available > 320 °C Not flammable,Heating may cause a fire. Not available Not available 195 °C PMCC Not available
Density Relative density Relative vapour density at 20°C Particle characteristics	: Not available : 0.86 : Not available : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Additional information

: 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 VOCs may be present.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Extremely high or low temperatures. Moisture.

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) Acute toxicity (dermal)	 Not classified (Based on available data, the classification criteria are not met) Not classified
Acute toxicity (inhalation)	: Not classified
Amines, C10-14-tert-alkyl (68955-53-3)	
LD50 oral rat	612 mg/kg
LD50 dermal rat	251 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 190 - 322
LC50 Inhalation - Rat	1.19 (>) mg/l
Skin corrosion/irritation Additional information	 Not classified (Based on available data, the classification criteria are not met) Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified
Additional information	: 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	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Amines, C10-14-tert-alkyl (68955-53-3)	
NOAEL (subacute, oral, animal/male, 28 days)	< mg/kg bodyweight
Aspiration hazard	Not classified
Additional information	: Although not classified, the product contains mineral oil. If aspirated into the lungs e.g. through vomiting after ingestion, admit to hospital immediately.
Lodexol FS 320	
Viscosity, kinematic @ 40°C	314.8
1-Octene (111-66-0)	
Viscosity, kinematic @ 40°C	1014 mm²/s
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
No additional information available	
11.2.2. Other information	
Potential adverse human health effects and	: Based on available data, the classification criteria are not met

Potential adverse human health effects and	:	Ba
symptoms		

SECTION 12: Ecological information	

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified (acute)

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Hazardous to the aquatic environment, long-term : (chronic)	Not classified
Additional information :	Based on available data, the classification criteria are not met.
Amines, C10-14-tert-alkyl (68955-53-3)	
LC50 - Fish [1]	1.3 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	2.5 (≤ 6) mg/l Daphnia magna
EC50 72h - Algae [1]	0.44 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	0.078 mg/l Oncorhynchus mykiss
NOEC chronic algae	0.05 mg/l Pseudokirchneriella subcapitata
12.2. Persistence and degradability	
Lodexol FS 320	
Persistence and degradability	Not established.
1-Octene (111-66-0)	
Persistence and degradability	Not rapidly degradable
Amines, C10-14-tert-alkyl (68955-53-3)	
Persistence and degradability	Not rapidly degradable
Biodegradation	21.8 %
12.3. Bioaccumulative potential	
Lodexol FS 320	
Partition coefficient n-octanol/water (Log Kow)	≈ 7 Not determined. Typical for mineral oil
Amines, C10-14-tert-alkyl (68955-53-3)	
Partition coefficient n-octanol/water (Log Pow)	2.9
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	

13.1. Waste treatment methods	
Product/Packaging disposal recommendations European List of Waste (LoW, EC 2000/532) HP Code	 Dispose of contents/container to a hazardous or special waste collection point. 13 02 06* - synthetic engine, gear and lubricating oils HP15 - "Waste capable of exhibiting a hazardous property listed above not directly displayed by the original waste".

SECTION 13: Disposal considerations

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SECTION 14: Transpo	ort information			
n accordance with ADR / IME	DG / IATA / ADN / RID			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber	·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	class(es)	·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group		·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information	n available			

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea Not applicable

Air transport Not applicable

Inland waterway transport Not applicable

Rail transport Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

United Kingdom

British National Regulations

: GB MCL (Mandatory Classification and Labelling).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
ED	Endocrine disrupting properties	
IARC	International Agency for Research on Cancer	
LC50	Median lethal concentration	
LD50	Median lethal dose	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
VOC	Volatile Organic Compounds	
WGK	Water Hazard Class	
vPvB	Very Persistent and Very Bioaccumulative	

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Data sources :	ECHA (European Chemicals Agency). 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. Supplier's safety documents.
Training advice :	Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
EUH208	Contains Amines, C10-14-tert-alkyl. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Sens. 1A	Skin sensitisation, category 1A

Full text of use descriptors		
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)	
ERC7	Use of functional fluid at industrial site	
PC17	Hydraulic Fluids	
PC24	Lubricants, greases, release products	
PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities	
SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites	

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.