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

1.1 Product identifier
Trade name: TESCO Motor Oil 5W -30

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: synthetic engine oil.
Uses advised against: other uses are not recommended

1.3 Details of the supplier of the safety data sheet
Manufacturer: ORLEN OIL Sp. z o.o.
Address: 31-323 Kraków, ul. Opolska 114, Poland
Telephone/Fax number: +48 12 66 555 00 / +48 12 66 555 01
Information on quality matters: telephone + 48 24 2010367 or +48 13 4384415
E-mail address for a competent person responsible for SDS: msds@orlenoil.pl

1.4 Emergency telephone number
+ 48 24 20103 67 or +48 13 43 84 415 (open from Monday to Friday during business hours from 7.00 to 15.00)

Section 2: Hazards identification

2.1 Classification of the substance or mixture
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements
Hazard pictograms and signal words
None
Names of components placed on the label
None
Hazard statements
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container to a licensed waste disposal company.

2.3 Other hazards
The product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. Combustible product with a high flash point.

Section 3: Composition/information on ingredients

3.1 Substances
Not applicable.

3.2 Mixtures: a mixture of synthetic base oils and enriching additives.
### TESCO MOTOR OIL 5W-30

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| CAS: — | distillates (petroleum), hydrotreated heavy paraffinic  
| EINECS: 265-157-1 | Asp. Tox.1; H304  
| Index number: 64742-54-7 |  
| REACH number: 01-211948627-25-0000 | ~40 % |

| CAS: — | reaction mass of isomers of: C7–9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate  
| EINECS: 406-040-9 | Aquatic Chronic 4; H413  
| Index number: — |  
| REACH number: 01-0000015551-76 | 1.8 – 4.5 % |

| CAS: — | zinc O,O’,O”,O”-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)  
| EINECS: 218-679-9 | Skin Corr.2; H315; *Eye Dam.1; H318; Aquatic Chronic 2; H411  
| Index number: — |  
| REACH number: 01-2119953275-34 | 0,54 – 0,9 % |

| CAS: — | reaction products of Benzeneamine, N-phenyl- with nonene  
| EINECS: 253-249-4 | Aquatic Chronic 4; H413  
| Index number: — |  
| REACH number: 01-2119488911-28 | 0,18 – 0,9 % |

| CAS: — | phenol, dodecyl-, branched  
| EINECS: 310-154-3 | Eye Dam.1; H318; Skin Corr.1C; H314; Rep.1B; H360; Aquatic Acute 1; H400; Aquatic Chronic 1; H411 (M=10)  
| Index number: — |  
| REACH number: 01-2119513207-49 | 0,001 - 0,045 % |

### Concentration limit:
*Eye Dam. 1: 10% < C ≤ 100%

Full text of each relevant H phrase is given in section 16 of SDS.

Used base oils are **not classified as carcinogenic**. The DMSO extract content (according to IP 346) <3%. On the basis of viscosity, the product does not pose a threat due to aspiration.

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### Section 4: First aid measures

#### 4.1 Description of first aid measures

**Inhalation:**
Remove the victim (move out / take out) from the place of exposure to fresh air; provide calm and warmth. Place the unconscious victim in a lateral position, loosen tightly fitting clothing; control and maintain a patent airway. In case of breathing disorders, give oxygen, in case of lack of breath, apply artificial respiration. If the victim loses consciousness, has breathing disorders or the malaise persists, provide medical help immediately.

**Skin contact:**
Take off contaminated / soaked clothing and shoes immediately. Clean contaminated skin thoroughly with soap and water or a mild detergent, then rinse with water. If irritation symptoms occur and persist, consult a physician. ATTENTION: Remove contaminated / soaked clothing to a safe place away from heat sources and sources of ignition.

**Eye contact:**
Immediately flush contaminated eyes with a continuous stream of water, remove contact lenses (if present) and continue rinsing for approx. 15 minutes. When rinsing, keep the eyelids wide open and move the eyeball. If symptoms occur and persist, consult a physician. ATTENTION: Avoid powerful water stream – risk of cornea damage.
Ingestion:
Do not induce vomiting. Spontaneous vomiting, hold the victim in an inclined forward position with the face directed to the ground. Provide medical assistance.

4.2 Most important symptoms and effects, both acute and delayed
Not determined.

4.3 Indication of any immediate medical attention and special treatment needed
Do not induce vomiting and do not give anything by mouth to an unconscious person. Show the safety data sheet or label / packaging to medical personnel providing assistance. Persons providing assistance in an area of unknown concentration of vapor / mist should be equipped with appropriate respiratory protection.
Advice to a doctor: symptomatic treatment.

Section 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media: carbon dioxide, dry chemicals, foam, sprayed water.
Unsuitable extinguishing media: water jet.

5.2 Special hazards arising from the substance or mixture
Combustible product with a high flash point. In the fire environment dangerous gases are formed containing carbon oxides, nitrogen oxides, sulfur oxides and other unidentified products of thermal decomposition of higher hydrocarbons. Do not inhale combustion products released in the fire environment.

5.3 Advice for firefighters
Follow the procedures for extinguishing chemical fires. In case of a fire involving large amounts of the product, remove / evacuate all third parties from the endangered areas; call rescue teams, Fire Brigade.
Closed containers exposed to fire or high temperatures should be cooled down with dispersed water currents from a safe distance, if it is possible and safe to remove them from the hazardous area. Do not allow the used extinguishing media to enter the sewage system and water reservoirs. Dispose of waste water and fire residue in accordance with applicable regulations. People involved in firefighting should be trained, equipped with breathing apparatus with independent air supply and full protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
It is recommended to use personal protective equipment - see section 8 of the safety data sheet. Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In the case of large spills, isolate the area at risk. Ensure that only the trained personnel removes the effects of the accident. Avoid contact with eyes, skin and clothing. Do not inhale vapours / mist. In case of release in a closed room ensure its effective ventilation.
ATTENTION: Spilled oils can cause slippery surface. Remove sources of ignition, extinguish open fire, do not smoke.

6.2 Environmental precautions
If it is possible and safe, eliminate or limit release of the product. In case of a large spill, limit the spread by embanking the contaminated area. Do not allow the product to enter sewers, water and soil. Notify relevant OHS unit, emergency and environmental services and administrative bodies.
6.3 Methods and material for containment and cleaning up
Smaller amounts of released liquid should be absorbed with an inert, non-flammable absorbing material (e.g. soil, sand, vermiculite), put it in a closed, labeled waste container. Clean contaminated surface with water and detergent, then rinse with water. Collect large amounts of released liquid by pumping it out. Dispose of according to applicable regulations. If necessary, in order to remove the product / absorbent material contaminated with the product, use the assistance of specialized companies dealing in transport and disposal of waste.

6.4 Reference to other sections

Section 7: Handling and storage

7.1 Precautions for safe handling
Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Keep unused containers tightly closed. Observe the basic rules of hygiene: do not eat, drink or smoke during work; before break and after work wash hands with water. Do not use contaminated clothing; immediately take off contaminated clothing, wash it before next use. ATTENTION: Take the contaminated clothing to a safe place, away from heat sources and sources of ignition. Use personal protective equipment in accordance with the information in section 8 of the safety data sheet.

7.2 Conditions for safe storage, including any incompatibilities
Store in tightly sealed, properly labeled containers, in a cool, well-ventilated place with waterproof flooring. The product can be stored in storage tanks in accordance with applicable regulations. Keep away from heat, protect from direct sunlight. Protect the product from contamination and waterlogging. Store away from strong oxidants. Storage temperature: -20 - 40 °C.

7.3 Specific end use(s)
No information about other uses than those mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters
Product does not contain components with occupational exposure limit values established on the Community level.
Please check also national legislation.

8.2 Exposure controls
Recommended methods for determining the purity of air according to:
- PN-Z-04008-7: 2002 “Requirements for the of air sampling at work environment and interpretation of results”
- PN-Z-04108-6:2006 „Protection of air quality. Oil content testing. Determination of mineral oils (fog) at workplaces by ultraviolet absorption spectrophotometry “.

Appropriate engineering controls
General ventilation and / or local exhaust to maintain the concentration of the harmful agent in the air below the established concentration limits.
Eye/face protection

Use tightly fitting protective glasses (goggles). It is recommended to equip a working place with an eyewash station with water to rinse the eyes.

Skin protection

The selection of the glove material should be made taking into account the breakthrough time (recommended: minimum 30 minutes), permeation rate (recommended: minimum level 2) and degradation. It is recommended to regularly change gloves and replace them immediately, if there are any signs of wear, damage (tearing, perforation) or changes in appearance (color, elasticity, shape). Wear an apron or protective clothing made of coated, product-resistant materials; oil-resistant and non-slip protective footwear.

Respiratory protection

Not required under normal conditions of use. If the concentrations exceed the admissible exposure values or the ventilation is inadequate, use an approved respirator with an appropriate filter or a filtering and absorbing equipment. In case of working in confined space, insufficient oxygen content in the air, high uncontrolled emissions or other circumstances, when the mask does not give sufficient protection, use a breathing apparatus with independent air supply.

Applied personal protective equipment must comply with the requirements of the Directive 89/686/EC. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.

Thermal hazards

Not applicable.

Environmental exposure controls

It should be considered to take precautions to protect the area around the storage tanks.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **appearance:** transparent liquid
- **colour:** amber to light brown
- **odour:** faint, characteristic
- **odour threshold:** not applicable
- **pH:** not applicable
- **pour point:** max. – 30 °C
- **melting point/freezing point:** not determined
- **initial boiling point and boiling range:** not determined
- **flash point:** min. 200 °C
- **evaporation rate:** not determined
- **flammability (solid, gas):** not applicable
- **upper/lower flammability or explosive limits:** flammability of oil mist at a concentration of approx. 45g / m³
- **vapour pressure:** not determined
- **vapour density:** not determined
- **relative density:** ~ 0.852 g/cm³
- **solubility(ies):** insoluble in water, soluble in hydrocarbons
- **partition coefficient: n-octanol/water:** not determined
- **auto-ignition temperature:** not determined
- **decomposition temperature:** not determined
- **explosive properties:** not display
- **oxidising properties:** not display
- **kinematic viscosity:** ~12.2 mm²/s (100 oC), ~ 55 mm²/s (40°C)
9.2 Other information

No additional test results.

Section 10: Stability and reactivity

10.1 Reactivity

Product is not reactive.

10.2 Chemical stability

The product is stable under normal conditions, at ambient temperature and under normal pressure.

10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

10.4 Conditions to avoid

High temperatures, open flame and other sources of ignition.

10.5 Incompatible materials

Strong oxidants.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1 Information on toxicological effects

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Toxicity of substances

Data for the base oil:

- Acute toxicity, oral: LD_{50} > 5000 mg/kg
- Acute toxicity, skin: LD_{50} > 2000 mg/kg
- Acute toxicity, inhalation: LC_{50} > 5.0 mg/L

Toxicity of mixtures

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met. Prolonged contact with the product may cause skin irritation.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.
Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

Symptoms related to physical, chemical and toxicological characteristics:
Accidental ingestion may cause stomach upset (nausea, vomiting, abdominal pain)

Delayed and immediate effects, as well as chronic effects in case of short and long-term exposure:
Repeated or prolonged exposure may cause drying, cracking and chronic skin inflammation. May cause respiratory irritation when it is in the form of oil mist or vapours at high temperatures.

Section 12: Ecological information

12.1 Toxicity
Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability
Probably a limited degree of biodegradability.

12.3 Bioaccumulative potential
No data.

12.4 Mobility in soil
Product can be dangerous for the environment in the event of improper use or in emergency situations - the product penetrates into the ground, causing contamination of groundwater.

12.5 Results of PBT and vPvB assessment
The components do not meet the criteria for PBT or vPvB in accordance with Annex XIII.

12.6 Other adverse effects
The product is classified as harmful to aquatic organisms. A product with very low volatility. The product is insoluble in water and lighter than water. It accumulates on the water surface creating a layer impeding the exchange of oxygen.

Section 13: Disposal considerations

13.1 Waste treatment methods
The proposed waste code: 13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils.
ATTENTION: due to the fact that the waste code is assigned depending on the origin of the waste, the end user should define the waste and assign the correct code, taking into account the specific conditions of use of the product, in accordance with applicable regulations.
Do not empty into drains. Do not allow the contaminations of surface and ground waters.
The waste product should be recovered or disposed of in authorized incinerators or waste treatment plants / disposal facilities, in accordance with applicable regulations.

Reuse/recycle/eliminate empty containers in accordance with the legislation in force. **ATTENTION:** Only packages that have been completely emptied and cleaned can be recycled! Use the services of companies with appropriate permissions.


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**Section 14: Transport information**

The product is not subject to the regulations on the transport of dangerous goods contained in ADR (road transport), RID (rail transport), IMDG (maritime transport), ICAO / IATA (air transport).

**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**
Not applicable.

**14.6 Special precautions for user**
Not applicable.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
Not applicable.

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**Section 15: Regulatory information**

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


15.2 Chemical safety assessment
A Chemical Safety Assessment is not required for mixtures.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Clarification of aberrations and acronyms
Asp. Tox. 1 Aspiration hazard category 1
Aquatic Acute 1 Hazardous to the aquatic environment category 1
Aquatic Chronic 1,2,3 Hazardous to the aquatic environment category 1,2,3
Repr. 1B Reproductive toxicity category 1B
Skin Corr. 2 Skin corrosion category 2
Skin Corr. 1C Skin corrosion category 1C
PBT Persistent, Bioaccumulative and Toxic substance
vPvB very Persistent, very Bioaccumulative substance
LD_{50} dose of a chemical or physical agent (radiation) expected to kill 50% of animals
LC_{50} concentration of a chemical that can be expected to cause death in 50% of animals
EC_{x} concentration of a tested substance causing 50% changes in response during a specified time interval
LOEC lowest observed effect concentration
NOEL no observed effect level
RID Regulation concerning the International Carriage of Dangerous Goods by Rail
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG International Maritime Dangerous Goods Code
IATA International Air Transport Association
UVCB Unknown or Variable composition, Complex reaction products or Biological materials

Literature and data sources:
Legal provisions quoted in Sections 2 - 15 of the safety data sheet.
Chemical safety report for components of the mixture.

Trainings
Employees using the product should be trained in health risks, hygiene requirements, the use of individual protection, accident prevention measures, rescue procedures, etc.

This safety data sheet is not a certificate of a product quality. The data contained in the SDS should be treated only as an aid to safe handling in transport, distribution, use and storage. Persons working with this product should be informed about the risks and recommended precautions. The information contained in the SDS applies only to the product and its specific uses. They may not be up-to-date or sufficient for this material used in combination with other materials or applications other than those listed in this document.

The user of the product is obliged to comply with all applicable standards and regulations, and also bears responsibility resulting from improper use of the information contained in the SDS or using the product contrary to its intended use.
In case of specific applications, an exposure assessment should be carried out and appropriate policies, training programs ensuring occupational safety should be prepared.

Other data
Classification of the mixture was based on hazardous substances’ concentration using calculation method, according to Regulation 1272/2008/EC (CLP) as amended.