PROFI-CAR

# Safety Data Sheet

## 14030 - ECO-DRIVE JLR SAE 0W-30



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

### 1.1. Product identifier

14030 - ECO-DRIVE JLR SAE 0W-30

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

**Use of the substance/mixture**

Motor oil multigrade

**Uses advised against**

No information available.

### 1.3. Details of the supplier of the safety data sheet


| | | |
|---|---|---|
| Company name: | PROFI-TECH GmbH | |
| Street: | Otto-Lilienthal-Straße 2 | |
| Place: | D-88046 Friedrichshafen | |
| Telephone: | +49 (0)7541/40286-0 | Telefax: +49 (0)7541/40286-99 |
| e-mail: | info@profi-tech.com | |


### 1.4. Emergency telephone number:

24-hour emergency number out side of USA/Canada: + 49 70024112112 (PRT)
24-hour emergency number in side USA/ Canada: +11 49 70024112112 (PRT)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No. 1272/2008**

Hazard categories:
Serious eye damage/eye irritation: Eye Irrit. 2
Hazard Statements:
Causes serious eye irritation.

### 2.2. Label elements

**Regulation (EC) No. 1272/2008**

**Hazard components for labelling**

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts

**Signal word:** Warning

**Pictograms:**



**Hazard statements**

| | |
|---|---|
| H319 | Causes serious eye irritation. |

**Precautionary statements**

| | |
|---|---|
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

P337+P313 If eye irritation persists: Get medical advice/attention.

**2.3. Other hazards**

No information available.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**Hazardous components**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 68442-22-8 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts | | | 0 - < = 1,29 % |
| | 270-478-5 | | 01-2119948548-22 | |
| | Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411 | | | |

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

**Specific Conc. Limits, M-factors and ATE**

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 68442-22-8 | 270-478-5 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts | 0 - < = 1,29 % |
| | dermal: LD50 = > 2002 mg/kg; oral: LD50 = > 2000 - < 5000 mg/kg | | |

**Further Information**

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**General information**

Remove affected person from the danger area and lay down.
Do not leave affected person unattended.
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Provide fresh air. Call a doctor if you feel unwell.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.
Take off contaminated clothing and wash it before reuse.
In case of skin irritation, consult a physician.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Rinse mouth thoroughly with water.
Let water be drunken in little sips (dilution effect).
Do NOT induce vomiting.
In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers.

**Unsuitable extinguishing media**

High power water jet.

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

Formation of toxic gases is possible during heating or in case of fire.
In case of fire may be liberated:

- Carbon monoxide (CO)
- Carbon dioxide (CO2).
- Nitrogen oxides (NOx)
- Pyrolysis products, toxic

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Use of protective clothing
In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**General measures**

Keep people at a distance and stay on the windward side.
Special danger of slipping by leaking/spilling product.

**For non-emergency personnel**

Wear protective gloves/protective clothing and eye/face protection.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.
Prevent spread over a wide area (e.g. by containment or oil barriers).

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

**For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.
Remove from the water surface (e.g. skimming, sucking).

**6.4. Reference to other sections**

Safe handling: see section 7
Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Avoid formation of oil dust.
Use personal protection equipment.
Do not put any product-impregnated cleaning rags into your trouser pockets.
Clear spills immediately.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.
Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place.
Keep only in the original container. Store in a cool dry place.
Floors should be impervious, resistant to liquids and easy to clean.

**Hints on joint storage**

Do not store together with:
- Materials capable of ignition under almost all normal temperature conditions
- Explosives

### 7.3. Specific end use(s)

Motor oil multigrade

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**DNEL/DMEL values**

| CAS No | Substance | | | |
|---|---|---|---|---|
| DNEL type | | Exposure route | Effect | Value |
| 68442-22-8 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts | | | |
| Worker DNEL, long-term | | inhalation | systemic | 8,05 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 11,4 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,98 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 5,71 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,24 mg/kg bw/day |

**PNEC values**

| CAS No | Substance | |
|---|---|---|
| Environmental compartment | | Value |
| 68442-22-8 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts | |
| Freshwater | | 0,004 mg/l |
| Freshwater (intermittent releases) | | 0,045 mg/l |
| Marine water | | 0,0046 mg/l |
| Freshwater sediment | | 0,045 mg/kg |
| Marine sediment | | 0,005 mg/kg |
| Secondary poisoning | | 10,67 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 0,007 mg/kg |

**Additional advice on limit values**

To date, no national critical limit values exist.

## 8.2. Exposure controls





**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion at critical locations.

**Protective and hygiene measures**

Take off contaminated clothing and wash it before reuse.
Wash hands before breaks and after work.
When using do not eat, drink, smoke, sniff.

**Eye/face protection**

During filling, metering, mixing and sampling must be used:
Wear eye/face protection. DIN EN 166

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Recommended glove articles: EN ISO 374
Suitable material: NBR (Nitrile rubber)
Thickness of the glove material: 0,4 mm
Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state: | Liquid |
| Colour: | yellow-brown |
| Odour: | characteristic |
| Odour threshold: | not determined |

| | | Test method |
|---|---|---|
| pH-Value: | not determined | |
| **Changes in the physical state** | | |
| Melting point: | not determined | |
| Boiling point or initial boiling point and boiling range: | not determined | |
| Pour point: | -48 °C | ISO 3016 |
| Flash point: | 224 °C | DIN ISO 2592 |
| **Flammability** | | |
| Solid/liquid: | not applicable | |
| Gas: | not applicable | |
| **Explosive properties** | | |
| Product is not explosive. However, formation of explosive air/vapour mixtures are possible. | | |
| Lower explosion limits: | not determined | |
| Upper explosion limits: | not determined | |
| **Self-ignition temperature** | | |
| Solid: | not applicable | |
| Gas: | not applicable | |
| Decomposition temperature: | not determined | |
| **Oxidizing properties** | | |
| The product is not: oxidising. | | |
| Vapour pressure: | not determined | |
| Density (at 15 °C): | 0,843 g/cm³ | DIN 51757 |
| Water solubility: | not determined | |
| **Solubility in other solvents** | | |
| not determined | | |
| Partition coefficient n-octanol/water: | not determined | |
| Viscosity / kinematic: (at 40 °C) | 52 mm²/s | DIN 51562 |
| Relative vapour density: | not determined | |
| Evaporation rate: | not determined | |

### 9.2. Other information

| | |
|---|---|
| Solid content: | not determined |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

The formation of combustible vapours is possible at temperatures above: Flash point

**10.4. Conditions to avoid**

Avoid: Thermal decomposition

**10.5. Incompatible materials**

Materials to avoid:

- Acids
- Oxidizing agent
- Reducing agent

**10.6. Hazardous decomposition products**

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO2)
- Nitrogen oxides (NOx)
- Pyrolysis products, toxic

## SECTION 11: Toxicological information

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

**Acute toxicity**

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

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | Method |
| 68442-22-8 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts | | | | |
| | oral | LD50 > 2000 - < 5000 mg/kg | Rat | Study report (1983) | other: Section 1500.3 – Federal Hazardou |
| | dermal | LD50 > 2002 mg/kg | Rat | Study report (1985) | OECD Guideline 402 |

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

**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.

**Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### 11.2. Information on other hazards

**Endocrine disrupting properties**

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

| CAS No | Chemical name | | | | | | |
|---|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | | [h] \| [d] | Species | Source | Method |
| 68442-22-8 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts | | | | | | |
| | Acute fish toxicity | LL50 | 4,5 mg/l | 96 h | Oncorhynchus mykiss | Study report (2005) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 | 21 mg/l | 72 h | Desmodesmus subspicatus | Study report | OECD Guideline 201 |
| | Acute crustacea toxicity | EL50 | 23 mg/l | 48 h | Daphnia magna | Study report (2005) | OECD Guideline 202 |
| | Crustacea toxicity | NOEC | 0,4 mg/l | 21 d | Daphnia magna | Study report (2010) | OECD Guideline 211 |
| | Acute bacteria toxicity | (> 10000 mg/l) | | 3 h | activated sludge of a domestic residential sewage | Study report (1994) | OECD Guideline 209 |

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 68442-22-8 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts | 1,67 |

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Air transport (ICAO-TI/IATA-DGR)**

| | |
|---|---|
| **14.1. UN number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road )
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

| Classification | Classification procedure |
|---|---|
| Eye Irrit. 2; H319 | Calculation method |

**Relevant H and EUH statements (number and full text)**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*