



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.06.2015

Version number 9

Revision: 12.06.2015

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

**1.1 Product identifier****Trade name:** OEST IXELON LT 200 EP**Article number:** 42099**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Application of the substance / the mixture** Grease**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Georg Oest Mineraloelwerk GmbH &amp; Co. KG

Georg - Oest - Str. 4

D-72250 Freudenstadt

Tel.: +49 (0) 7441 / 539-0

**Further information obtainable from:**

Tel.: +49 (0) 7441 / 539 - 0

e-mail: productsafety@oest.de

**1.4 Emergency telephone number:**

Tel.: +49 (0) 7441 / 539 - 0 (08:00 a.m. - 5:00 p.m.) or European emergency call 112

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS07

**Signal word** Warning**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P280

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

P264

Wash thoroughly after handling.

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.

**Additional information:** The mineral oils in this product contain < 3% DMSO-extract (IP 346).**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.

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· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

#### · Dangerous components:

CAS: 68425-15-0 EINECS: 270-335-7 Reg.nr.: 01-2119540516-41	Polysulfide, Di-tert-dodecyl- Aquatic Chronic 4, H413	3-<10%
CAS: 4259-15-8 EINECS: 224-235-5 Reg.nr.: 01-2119493635-27	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411	1-<2.5%
CAS: 68457-79-4 EINECS: 270-608-0 Reg.nr.: 01-2119493628-22	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315	0.3-<1%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

· **General information:** Immediately remove any clothing soiled by the product.· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.· **After swallowing:** If symptoms persist consult doctor.· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

· **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.· **For safety reasons unsuitable extinguishing agents:** Water· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

#### · 5.3 Advice for firefighters

· **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

#### · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

#### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs**

#### 68425-15-0 Polysulfide, Di-tert-dodecyl-

Oral	DNEL longterm, systemic effect	1.66 mg/kg (General population)
Dermal	DNEL longterm, systemic effect	33.3 mg/kg (Workers)
		16.66 mg/kg (General population)
Inhalative	DNEL longterm, systemic effect	23.5 mg/m <sup>3</sup> (Workers)
		5.8 mg/m <sup>3</sup> (General population)

#### 4259-15-8 zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

Oral	DNEL longterm, systemic effect	0.19 mg/kg (General population)
Dermal	DNEL acute, systemic effect	0.14 mg/kg (Workers)
	DNEL longterm, local effect	0.09 mg/cm <sup>2</sup> (Workers)
	DNEL longterm, systemic effect	9.59 mg/kg (Workers)
		4.8 mg/kg (General population)
Inhalative	DNEL acute systemic effect	0.42 mg/m <sup>3</sup> (Workers)
	DNEL acute, local effect	0.09 mg/cm <sup>2</sup> (Workers)
	DNEL longterm, systemic effect	0.21 mg/m <sup>3</sup> (Workers)
		1.67 mg/m <sup>3</sup> (General population)
	DNEL longterm, local effect	0.07 mg/m <sup>3</sup> (Workers)

#### 68457-79-4 Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

Oral	DNEL longterm, systemic effect	0.24 mg/kg (General population)
Dermal	DNEL longterm, systemic effect	11.87 mg/kg (Workers)
		5.93 mg/kg (General population)
Inhalative	DNEL longterm, systemic effect	8.13 mg/m <sup>3</sup> (Workers)
		2.06 mg/m <sup>3</sup> (General population)

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· PNECs	
<b>68425-15-0 Polysulfide, Di-tert-dodecyl-</b>	
PNEC	66.7 mg/kg (secondary poisoning)
PNEC STP	1 mg/l (-)
<b>4259-15-8 zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)</b>	
PNEC	0.0548 mg/kg (soil) 0.0046 mg/l (marine water) 0.00701 mg/kg (sediment (marine water)) 8.33 mg/kg (secondary poisoning) 0.0701 mg/kg (sediment (freshwater)) 0.004 mg/l (freshwater) 0.044 mg/kg (Intermittent release)
PNEC STP	3.8 mg/l (-)
<b>68457-79-4 Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts</b>	
PNEC	0.0046 mg/l (marine water) 10.67 mg/kg (secondary poisoning) 0.004 mg/l (freshwater) 0.045 mg/l (Intermittent release)
PNEC STP	100 mg/l (-)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

· **Material of gloves** Nitrile rubber, NBR

· **Penetration time of glove material**

longterm contact:

NBR: thickness:0,425 mm; break trough: 240 - 480 min.

shortterm contact:

NBR: thickness 0,12; break trough: 10 - 30 min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

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### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

· Form:	Pasty
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: Not determined.

##### · Change in condition

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.

· Flash point: > 200 °C (DIN ISO 2592)

· Flammability (solid, gaseous): Not applicable.

##### · Ignition temperature:

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

##### · Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· Vapour pressure: Not determined.

· Density: 0,94 g/cm<sup>3</sup> 20 °C (DIN 51757)

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

##### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

##### · Viscosity:

· Dynamic: Not determined.

##### · Kinematic:

##### · Solvent content:

· Organic solvents:	0.0 %
· VOC (EC)	0.00 %

· 9.2 Other information: No further relevant information available.

### SECTION 10: Stability and reactivity

#### · 10.1 Reactivity

#### · 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions: No dangerous reactions known.

· 10.4 Conditions to avoid: No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

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· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information**· **11.1 Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values relevant for classification:****68425-15-0 Polysulfide, Di-tert-dodecyl-**

Oral LD50 2000 mg/kg (rat)

Dermal LD50 &gt; 2000 mg/kg (rat) (OECD 402)

**4259-15-8 zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)**

Oral LD50 &gt; 2000 mg/kg (rat) (OECD 401)

Dermal LD50 &gt; 5000 mg/kg (rabbit) (OECD 402)

**68457-79-4 Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts**

Oral LD50 &gt; 2000 mg/kg (rat) (OECD 401)

Dermal LD50 &gt; 2000 mg/kg (rabbit) (OECD 402)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** Irritating effect.· **Sensitisation:** No sensitising effects known.· **Subacute to chronic toxicity:****68425-15-0 Polysulfide, Di-tert-dodecyl-**

Oral LOAEL subacute 1000 mg/kg/d (rat) (OECD 407)

**4259-15-8 zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)**

Oral NOAEL subacute 30.0 mg/kg/d (rat) (OECD 421, parents and F1)

**68457-79-4 Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts**

Oral NOAEL subacute 160 mg/kg/d (rat) (OECD 422)

· **Toxicokinetics, metabolism and distribution** No further relevant information available.· **Repeated dose toxicity** No further relevant information available.· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No further relevant information available.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****68425-15-0 Polysulfide, Di-tert-dodecyl-**

EC50 &gt; 100 mg/l (fish) (OECD 203)

NOEC &lt; 0.08 mg/l (algae) (OECD 201)

&lt; 0.1 mg/l (daphnia) (EU method C.2)

**4259-15-8 zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)**

EC50 &gt; 240 mg/l (algae)

1 - 10 mg/l (daphnia) (OECD 202)

1 - 10 mg/l (fish) (OECD 203)

**68457-79-4 Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts**

EC50 &gt; 10000 mg/l (microorganisms) (OECD 209 read across)

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	21 mg/l (algae) (OECD 201 read across)
	23 mg/l (daphnia) (OECD 202)
	46 mg/l (fish) (OECD 203)
NOEC	0.4 mg/l (daphnia) (OECD 211)
	< 26 mg/l (fish) (OECD 203)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

**68457-79-4 Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts**

log Pow 0.69 (-)

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

12 01 12\* spent waxes and fats

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

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- |  |                 |
|--|-----------------|
| · 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. |
| · UN "Model Regulation":   | -               |

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Information about limitation of use: Employment restrictions concerning juveniles must be observed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

#### · Department issuing MSDS: [productsafety@oest.de](mailto:productsafety@oest.de)

#### · 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 Harmonised 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 (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
- Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4