

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 05/02/2015 Revision date: 08/04/2024 Version: 5.1

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

#### 1.1. Product identifier

Product form	:	Mixture
Trade name	:	HYDROL PREMIUM L-HM 46
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
Use of the substance/mixture

Industrial useHydraulic Fluids

#### 1.2.2. Uses advised against

No additional information available

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

ORLEN OIL Sp. z o.o. ul. Elbląska 135 80-718 Gdańsk T +48 12 66 555 00 / +48 12 66 555 01 <u>centrala@orlenoil.pl</u> E-mail address of competent person responsible for the SDS : <u>msds@orlenoil.pl</u>

#### 1.4. Emergency telephone number

Emergency number

: Emergency contact + 48 242010367, +48 242869509, +48242869556 (7:00-15:00) Emergency number 112

### **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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

EUH-statements

: EUH208 - Contains (4-nonylphenoxy)acetic acid (3115-49-9). May produce an allergic reaction.

#### 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 substance(s) are 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

## Safety Data Sheet

- - ---

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of 3-methylphenyl bis(4-methylphenyl) phosphate and bis(3-methylphenyl) 4-methylphenyl phosphate and tris(3-methylphenyl) phosphate	CAS-No.: 1330-78-5 REACH-no: 01-2119531335- 46	0.06 – 0.12	Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(4-nonylphenoxy)acetic acid	CAS-No.: 3115-49-9 EC-No.: 221-486-2 REACH-no: 01-2119982392- 31	0.03 - 0.04	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 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 after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and e	ffects, both acute and delayed	
Symptoms/effects after inhalation	: May cause headache, nausea and irritation of respiratory tract.	
Symptoms/effects after skin contact	: Contact during a long period may cause light irritation.	
Symptoms/effects after eye contact	: redness, itching, tears.	
Symptoms/effects after ingestion	: Abdominal pain, nausea.	

## 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: Dry chemical, CO2, or water spray or regular foam.Unsuitable extinguishing media: Strong water jet.			
5.2. Special hazards arising from the subs	tance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

## SECTION 6: Accidental release measures

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

## 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area.

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/200	6 amended by Regulation (EU) 2020/878
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up Other information	<ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul><li>Ensure good ventilation of the work station. Wear personal protective equipment.</li><li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li></ul>
7.2. Conditions for safe storage, inclu	Iding any incompatibilities
Storage conditions Storage temperature	<ul> <li>Store in a well-ventilated place. Keep cool.</li> <li>-20 - 40 °C</li> </ul>
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	ersonal protection
8.1. Control parameters	
8.1.1 National occupational exposure and	biological limit values
No additional information available	
8.1.2. Recommended monitoring procedur	res
No additional information available	
8.1.3. Air contaminants formed	
No additional information available	
8.1.4. DNEL and PNEC	
Distillates (petroleum), hydrotreated	heavy paraffinic; Baseoil— unspecified; (64742-54-7)
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	5.4 mg/m <sup>3</sup> 8 hours
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1.2 mg/m <sup>3</sup> 24 hours
PNEC (Oral)	
PNEC oral (secondary poisoning)	9.33 mg/kg food mammalian
(4-nonylphenoxy)acetic acid (3115-4	9-9)

## DNEL/DMEL (Workers)

08/04/2024 (Revision date)

17.6 mg/m<sup>3</sup>

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

(4-nonylphenoxy)acetic acid (3115-49-9)		
Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1.76 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	4.3 mg/m <sup>3</sup>	
Long-term - systemic effects,oral	0.25 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.43 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	0.25 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.00088 mg/l	
PNEC aqua (marine water)	0.000088 mg/l	
PNEC aqua (intermittent, freshwater)	0.0088 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.02 mg/kg dwt	
PNEC sediment (marine water)	0.002 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.0035 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	1 mg/l	
4-nonylphenol, branched (84852-15-3)		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	15 mg/kg bodyweight/day	
Acute - systemic effects, inhalation	1 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	7.5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.5 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Acute - systemic effects, dermal	7.6 mg/kg bodyweight/day	
Acute - systemic effects, inhalation	0.8 mg/m <sup>3</sup>	
Acute - systemic effects, oral	0.4 mg/kg bodyweight/day	
Long-term - systemic effects,oral	0.08 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.4 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	3.8 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.000644 mg/l	
PNEC aqua (marine water)	0.000548 mg/l	
PNEC aqua (intermittent, freshwater)	0.00017 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	4.62 mg/kg dwt	
PNEC sediment (marine water)	1.23 mg/kg dwt	

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

4-nonylphenol, branched (84852-15-3)		
PNEC (Soil)		
PNEC soil 2.3 mg/kg dwt		
PNEC (Oral)		
PNEC oral (secondary poisoning)	2.36 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	9.5 mg/l	

### 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.

#### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



## 8.2.2.1. Eye and face protection

**Eye protection:** Safety glasses (EN 166). Safety glasses

### 8.2.2.2. Skin protection

**Skin and body protection:** Wear suitable protective clothing

#### Hand protection:

Protective gloves against chemicals (EN 374)

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:** Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

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

Physical state	: Liquid
Colour	: Yellow.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: < -15 °C
Boiling point	: Not available

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Flammability	: Non flammable. : Not available
Lower explosion limit Upper explosion limit	: Not available
Flash point	: > 185 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 46 mm²/s 40°C
Solubility	: insoluble in water. Soluble in hydrocarbons.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.878 g/m³ 15°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: 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

Relative evaporation rate (butylacetate=1)

## 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.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 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)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

STOT-single exposure STOT-repeated exposure	: Not classified : Not classified
(4-nonylphenoxy)acetic acid (3115-4	19-9)
NOAEL (oral, rat, 90 days)	60 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
Aspiration hazard	: Not classified
HYDROL PREMIUM L-HM 46	
Viscosity, kinematic	46 mm²/s 40°C

## 11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
(acute)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified	
(4-nonylphenoxy)acetic acid (3115-49-9)		
LC50 - Fish [1]	9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	0.88 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	27.21 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	18.37 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	

### 12.2. Persistence and degradability

HYDROL PREMIUM L-HM 46		
Persistence and degradability	Not rapidly degradable	
Reaction mass of 3-methylphenyl bis(4-methylphenyl) phosphate and bis(3-methylphenyl) 4-methylphenyl phosphate and tris(3-methylphenyl) phosphate (1330-78-5)		
Persistence and degradability	Not rapidly degradable	
(4-nonylphenoxy)acetic acid (3115-49-9)		
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 12.6. Endocrine disrupting properties

#### No additional information available

#### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transpo	rt information			
n accordance with ADR / IMD	IG / 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 shipping	g name	· · ·	· · ·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard c	lass(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	· · · · · · · · · · · · · · · · · · ·	I	

### 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

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **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)

#### **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

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

#### Indication of changes:

Hazards identification.

#### Abbreviations and acronyms: ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR European Agreement concerning the International Carriage of Dangerous Goods by Road ATE Acute Toxicity Estimate BCF **Bioconcentration factor** BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL **Derived Minimal Effect level** DNEL Derived-No Effect Level EC-No. European Community number

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
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 (4-nonylphenoxy)acetic acid (3115-49-9). May produce an allergic reaction.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
Skin Sens. 1A	Skin sensitisation, category 1A	
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.