according to Regulation (EC) No. 1907/2006 - DE (Commission Regulation (EU) 2020/878)



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

1.1 Product identifier

Product name : OKS 490

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

Use of the Sub- : Grease

stance/Mixture

Recommended restrictions

on use

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : OKS Spezialschmierstoffe GmbH

Ganghoferstr. 47

D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599 info@oks-germany.com

E-mail address of person : mcm@oks-germany.com

responsible for the SDS Material Compliance Management

National contact :

1.4 Emergency telephone number

Emergency telephone num: +49 8142 3051 517

ber

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

# 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### **Additional Labelling**

EUH210 Safety data sheet available on request.

according to Regulation (EC) No. 1907/2006 - DE (Commission Regulation (EU) 2020/878)



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EUH208 Contains dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate. May

produce an allergic reaction.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : Mineral oil. aluminium soap

graphite

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concentration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)	
Fatty acids, C16-18 and C18-unsatd., Me esters, sulfurized	68390-93-2 269-913-1	Aquatic Chronic3; H412		>= 2,5 - < 10	
dibutyl [[bis[(2- ethylhex- yl)oxy]phosphinothioyl ]thio]succinate	68413-48-9 270-220-1 01-2120786863-37- XXXX	Skin Sens.1B; H317 Aquatic Chronic4; H413		>= 0,25 - < 1	
Substances with a workplace exposure limit :					
residual oils (petrole- um), solvent-dewaxed	64742-62-7 265-166-0	Not classified		>= 50 - < 70	
	649-471-00-X		Note L		



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	01-2119480472-38- xxxx		
Graphite	7782-42-5 231-955-3	Not classified	>= 1 - < 10

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial respira-

tion.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water.

Get medical attention immediately if irritation develops and

persists.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes.

If eye irritation persists, consult a specialist.

If swallowed : Move the victim to fresh air.

If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

## 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Allergic appearance

Risks : May cause an allergic skin reaction.

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

Treatment : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

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## **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

High volume water jet

High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod: :

ucts

Carbon oxides Sulphur oxides

Oxides of phosphorus

Metal oxides

5.3 Advice for firefighters

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment, Exposure to decomposi-

tion products may be a hazard to health.

Further information : Standard procedure for chemical fires.

#### **SECTION 6: Accidental release measures**

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

Personal precautions : Evacuate personnel to safe areas.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Do not breathe vapours, aerosols.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Clean up promptly by sweeping or vacuum.

Keep in suitable, closed containers for disposal.

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#### 6.4 Reference to other sections

For personal protection see section 8.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Wash hands and face before breaks and immediately after

handling the product.

Do not get in eyes or mouth or on skin.

Do not get on skin or clothing.

Do not ingest. Do not repack.

These safety instructions also apply to empty packaging which

may still contain product residues. Keep container closed when not in use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after

handling.

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

Requirements for storage areas and containers

Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

Storage class (TRGS 510) : 11, Combustible Solids

7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

#### **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
residual oils (petro-	64742-62-7	AGW (Vapour	5 mg/m3	DE TRGS



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leum), solvent- dewaxed		and aerosols)		900 (2018-06-07)	
	Peak-limit: ex	Peak-limit: excursion factor (category): 4;(II)			
	Further inform	Further information: When there is compliance with the OEL and biological			
	tolerance valu	tolerance values, there is no risk of harming the unborn child			
Graphite	7782-42-5	AGW (Inhalable	10 mg/m3	DE TRGS	
		fraction)	_	900	
		,		(2014-04-02)	
	Peak-limit: excursion factor (category): 2;(II)				
	Further information: When there is compliance with the OEL and biological				
	tolerance values, there is no risk of harming the unborn child				
		AGW (Alveolate	1,25 mg/m3	DE TRGS	
		fraction)		900	
		,		(2014-04-02)	
	Peak-limit: excursion factor (category): 2;(II)				
	Further information: When there is compliance with the OEL and biological				
	tolerance values, there is no risk of harming the unborn child				

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
residual oils (petrole- um), solvent-dewaxed	Workers	Inhalation	Long-term systemic effects	2,7 mg/m3
	Workers	Inhalation	Long-term local ef- fects	5,6 mg/m3
	Workers	Dermal	Long-term systemic effects	1 mg/kg bw/day
Reaction mass of p-t- butylphenyldiphenyl phosphate and bis(p- t-butylphenyl) phenyl phosphate	Workers	Inhalation	Long-term systemic effects	2,03 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,2 mg/m3
	Workers	Dermal	Long-term systemic effects	0,056 mg/kg bw/day
	Workers	Dermal	Long-term local ef- fects	0,001 mg/cm2

# Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
residual oils (petroleum), solvent-	Oral	9,33 mg/kg
dewaxed		
Reaction mass of p-t-	Fresh water	0,000116 mg/l
butylphenyldiphenyl phosphate		
and bis(p-t-butylphenyl) phenyl		
phosphate		
	Marine water	0,000012 mg/l
	Microbiological Activity in Sewage Treat-	1 mg/l
	ment Systems	
	Fresh water sediment	0,51 mg/kg
	Marine sediment	0,051 mg/kg



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| Soil | 0,118 mg/kg

#### 8.2 Exposure controls

#### **Engineering measures**

none

#### Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection

Material : Nitrile rubber
Break through time : > 10 min
Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends

amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each

case.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374

derived from it.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type P

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

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

# 9.1 Information on basic physical and chemical properties

Physical state : paste

Colour : black

Odour : characteristic

Odour Threshold : No data available

Melting point/range : No data available

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Boiling point/boiling range : > 300 °C

Flammability (solid, gas) : Combustible Solids

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : < 0,001 hPa (20 °C)

Relative density : 0.98 (20 °C)

Reference substance: Water The value is calculated

Density : 0,98 g/cm3

(20 °C)

Bulk density : No data available

Relative vapour density : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : No data available

Self-ignition : No data available

according to Regulation (EC) No. 1907/2006 - DE (Commission Regulation (EU) 2020/878)



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Evaporation rate : No data available

Sublimation point : No data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No hazards to be specially mentioned.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

# 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

## 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

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

## **Acute toxicity**

**Product:** 

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Symptoms: Redness, Local irritation

#### **Components:**

## dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:

Acute oral toxicity : LD50 (Rat): 11.300 mg/kg

Method: OECD Test Guideline 401

#### residual oils (petroleum), solvent-dewaxed:



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Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

**Graphite:** 

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 423

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat): > 2.000 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Skin corrosion/irritation

**Product:** 

Remarks : This information is not available.

**Components:** 

dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:

Species : Rabbit

Assessment : No skin irritation Result : No skin irritation

residual oils (petroleum), solvent-dewaxed:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

**Graphite:** 

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

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#### Serious eye damage/eye irritation

**Product:** 

Remarks : This information is not available.

# **Components:**

## dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:

Species : Rabbit

Assessment : No eye irritation Result : No eye irritation

# residual oils (petroleum), solvent-dewaxed:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

**Graphite:** 

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

#### Respiratory or skin sensitisation

**Product:** 

Remarks : This information is not available.

#### Components:

## dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:

Assessment : The product is a skin sensitiser, sub-category 1B. Result : The product is a skin sensitiser, sub-category 1B.

#### residual oils (petroleum), solvent-dewaxed:

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : yes

**Graphite:** 

Species : Mouse

Method : OECD Test Guideline 429

Result : negative

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## Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:** 

residual oils (petroleum), solvent-dewaxed:

Germ cell mutagenicity- As-

sessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Graphite:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Method: OECD Test Guideline 471

Result: negative

Test Type: gene mutation test Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Carcinogenicity

**Product:** 

Remarks : No data available

Components:

residual oils (petroleum), solvent-dewaxed:

Carcinogenicity - Assess-

ment

: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

**Product:** 

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

: Remarks: No data available

**Components:** 

residual oils (petroleum), solvent-dewaxed:

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Reproductive toxicity - As-

sessment

: - Fertility -

No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

**Graphite:** 

Effects on fertility : Species: Rat

**Application Route: Oral** 

General Toxicity F1: NOAEL: 813 mg/kg body weight

Method: OECD Test Guideline 422

Repeated dose toxicity

**Product:** 

Remarks : This information is not available.

**Components:** 

**Graphite:** 

Species : Rat NOAEL : 813 mg/kg

Application Route : Oral

Method : OECD Test Guideline 422

Species : Rat NOAEL : > 2 mg/l

Application Route : inhalation (dust/mist/fume)
Method : OECD Test Guideline 412

**Aspiration toxicity** 

**Product:** 

This information is not available.

**Components:** 

residual oils (petroleum), solvent-dewaxed:

No aspiration toxicity classification

11.2 Information on other hazards

**Endocrine disrupting properties** 

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

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**Further information** 

**Product:** 

Remarks : Information given is based on data on the components and

the toxicology of similar products.

**SECTION 12: Ecological information** 

12.1 Toxicity

**Product:** 

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae/aquatic

plants

Remarks: No data available

Toxicity to microorganisms

Remarks: No data available

**Components:** 

Fatty acids, C16-18 and C18-unsatd., Me esters, sulfurized:

Toxicity to daphnia and other :

EC50 (Daphnia magna (Water flea)): 13 mg/l

aquatic invertebrates

Exposure time: 48 h

Toxicity to algae/aquatic

EC50 (algae): > 100 mg/l Exposure time: 72 h

plants

dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,002 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

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residual oils (petroleum), solvent-dewaxed:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

> Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

NOEC (Pimephales promelas (fathead minnow)): >= 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

LC50 : > 10.000 mg/lExposure time: 96 h

Test Type: semi-static test

Method: OECD Test Guideline 202

NOEC : >= 10.000 mg/lExposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

**Graphite:** 

Toxicity to fish LC50 (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

(Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

Exposure time: 72 h

Method: OECD Test Guideline 201

# 12.2 Persistence and degradability

**Product:** 

Biodegradability Remarks: No data available

Physico-chemical removabil- : Remarks: No data available

ity



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## **Components:**

#### Fatty acids, C16-18 and C18-unsatd., Me esters, sulfurized:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 35 % Exposure time: 28 d

Method: OECD Test Guideline 301B

#### dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 12,1 % Exposure time: 28 d

Method: OECD Test Guideline 301B

#### residual oils (petroleum), solvent-dewaxed:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

## **Graphite:**

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

## 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to

be persistent, bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very

persistent and very bioaccumulating (vPvB).

# **Components:**

# dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:

Partition coefficient: n- : log Pow: > 6,5

octanol/water Method: OECD Test Guideline 117

GLP: yes

#### residual oils (petroleum), solvent-dewaxed:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-

octanol/water

: Pow: > 3,5



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#### 12.4 Mobility in soil

**Product:** 

Mobility Remarks: No data available

Distribution among environ-

mental compartments

: Remarks: No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:** 

This substance/mixture contains no components considered Assessment

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

#### **Components:**

## residual oils (petroleum), solvent-dewaxed:

Assessment This substance is not considered to be very persistent and

> very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

## 12.6 Endocrine disrupting properties

**Product:** 

Assessment The substance/mixture does not contain components consid-

> ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

## 12.7 Other adverse effects

Product:

mation

Additional ecological infor- : No information on ecology is available.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Product The product should not be allowed to enter drains, water

courses or the soil.

Do not dispose of with domestic refuse.

Dispose of as hazardous waste in compliance with local and

national regulations.

according to Regulation (EC) No. 1907/2006 - DE (Commission Regulation (EU) 2020/878)



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Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as

the unused product.

Dispose of waste product or used containers according to

local regulations.

The following Waste Codes are only suggestions:

Waste Code : used product, unused product

12 01 12\*, spent waxes and fats

uncleaned packagings

15 01 10\*, packaging containing residues of or contaminated

by hazardous substances

# **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADN : Not regulated as a dangerous good

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ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

(EU SVHC)

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH),

Article 57).

: Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

(EU. REACH-Annex XIV)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer (EC 1005/2009)

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast) (EU POP) Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

(EU PIC)

Not applicable



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Seveso III: Directive 2012/18/EU of the European : Not applicable

Parliament and of the Council on the control of major-accident hazards involving dangerous sub-

stances.

Water hazard class (Germa-

water nazaru ciass (Gerri

: WGK 1 slightly hazardous to water

Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:

others: 27,28 %

Inorganic substances in powdered form:

Not applicable

Inorganic substances in vapour or gaseous form:

Not applicable
Organic Substances:
portion Class 1: < 0,01 %

others: 72,72 %

Carcinogenic substances:

Not applicable Mutagenic: Not applicable Toxic to reproduction: Not applicable

Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 3,93 %

#### 15.2 Chemical safety assessment

Volatile organic compounds

This information is not available.

## **SECTION 16: Other information**

# **Full text of H-Statements**

H317 : May cause an allergic skin reaction.

H412 : Harmful to aquatic life with long lasting effects.
H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Note L : The harmonised classification as a carcinogen applies unless

it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils



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and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method"Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard

class.

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

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