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

1.1 Product identifier

OKS 260 Product name

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

Use of the : Lubricant

Substance/Mixture

Recommended restrictions

on use

: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

OKS Spezialschmierstoffe GmbH Company

Ganghoferstr. 47

82216 Maisach-Gernlinden

Deutschland

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

E-mail address of person

responsible for the SDS

National contact

mcm@oks-germany.com

1.4 Emergency telephone number

Emergency telephone

number

+49 8142 3051 517 (24/7 service)

# SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Specific target organ toxicity - single

exposure, Category 3, Respiratory

system

H335: May cause respiratory irritation.



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#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated

area.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel

unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

Storage:

P403 + P233 Store in a well-ventilated place. Keep

container tightly closed.

Hazardous components which must be listed on the label: calcium dihydroxide

## 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.



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

#### 3.2 Mixtures

Chemical nature : Mineral oil.

solid lubricant lithium soap

#### Components

Chemical name	CAS-No. EC-No.	Classification	specific concentration limit	Concentration (% w/w)
	Index-No. Registration number		M-Factor Notes	
	Registration number		Acute toxicity estimate	
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil —	64742-54-7 265-157-1	Asp. Tox.1; H304		>= 30 - < 50
unspecified	649-467-00-8			
calcium dihydroxide	1305-62-0 215-137-3	Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H335		>= 20 - < 30

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

respiration.

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.



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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.

Get medical attention immediately.

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 : Skin contact may provoke the following symptoms:

Erythema

Risks : Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media

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

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion : Carbon oxides products : 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 decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires.

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

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Ensure adequate ventilation. 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 : Pick up and transfer to properly labelled containers.

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 : Do not use in areas without adequate ventilation.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application 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 : Store in original container. Keep container closed when not in

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areas and containers 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.

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
calcium	1305-62-0	TWA	5 mg/m3	GB EH40
dihydroxide				(2020-01-01)
		TWA (Respirable	1 mg/m3	GB EH40
		fraction)	_	(2020-01-01)
		STEL	4 mg/m3	GB EH40
		(Respirable		(2020-01-01)
		fraction)		
		TWA (Respirable	1 mg/m3	2017/164/EU
		fraction)		(2017-02-01)
	Further information: Indicative			
		STEL	4 mg/m3	2017/164/EU
		(Respirable		(2017-02-01)
		fraction)		
	Further information: Indicative			

# **Derived No Effect Level (DNEL):**

Substance name	End Use	Exposure routes	Potential health effects	Value
calcium dihydroxide	Workers	Inhalation	Long-term local effects	1 mg/m3
	Workers	Inhalation	Acute local effects	4 mg/m3
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Workers	Inhalation	Long-term local effects	5.58 mg/m3
	Workers	Inhalation	Long-term systemic effects	2.73 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.97 mg/kg
thiodiethylene bis[3- (3,5-di-tert-butyl-4-	Workers	Inhalation	Long-term systemic effects	3 mg/m3



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hydroxyphenyl)propio nate]				
	Workers	Inhalation	Acute systemic effects	3 mg/m3
	Workers	Skin contact	Long-term systemic effects	13.8 mg/kg

## **Predicted No Effect Concentration (PNEC):**

Substance name	Environmental Compartment	Value
calcium dihydroxide	Fresh water	0.49 mg/l
	Marine water	0.32 mg/l
	Intermittent use/release	0.49 mg/l
	Microbiological Activity in Sewage	3 mg/l
	Treatment Systems	
	Soil	1080 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Oral	9.33 mg/kg
thiodiethylene bis[3-(3,5-di-tert-butyl-4-	Sewage treatment plant	1 mg/l
hydroxyphenyl)propionate]		

## 8.2 Exposure controls

#### **Engineering measures**

Effective exhaust ventilation system

#### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection

Material : Fluorinated 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.

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

concentration and amount of dangerous substances, and to

the specific work-place.

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

Filter type : Filter type A-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.

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

9.1 Information on basic physical and chemical properties

Appearance : paste

Colour : white, beige

Odour : odourless

Odour Threshold : No data available

pH : Not applicable

substance/mixture is non-soluble (in water)

Drop point : 150 °C

(1,013 hPa)

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapour pressure : < 0.001 hPa (20 °C)

Relative vapour density : No data available

Relative density : 1.25 (20 °C)

Reference substance: Water The value is calculated

Density : 1.25 g/cm3

(20 °C)

Bulk density : No data available

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Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available

Metal corrosion rate : Not corrosive to metals

Particle size : Not applicable

Particle Size Distribution : Not applicable

Self-ignition : not auto-flammable

# **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.

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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 toxicological effects

**Acute toxicity** 

**Product:** 

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

Acute inhalation toxicity : Symptoms: Inhalation may provoke the following symptoms:.

Local irritation, Respiratory disorders

Remarks: Irritating to respiratory system.

Acute dermal toxicity : Symptoms: Redness, Local irritation

**Components:** 

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

calcium dihydroxide:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Assessment: The substance or mixture has no acute oral

toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.04 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 436

GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,500 mg/kg

Method: OECD Test Guideline 402

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Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

**Product:** 

Remarks : Irritating to skin.

**Components:** 

calcium dihydroxide:

Species : human skin Assessment : Irritating to skin.

Method : OECD Test Guideline 431

Result : Irritating to skin.

GLP : yes

Species : Rabbit

Assessment : Irritating to skin.

Method : OECD Test Guideline 404

Result : Irritating to skin.

GLP : yes

Serious eye damage/eye irritation

**Product:** 

Remarks : Risk of serious damage to eyes.

Components:

calcium dihydroxide:

Species : Rabbit

Assessment : Risk of serious damage to eyes.

Method : OECD Test Guideline 405

Result : Risk of serious damage to eyes.

GLP : yes

Respiratory or skin sensitisation

**Product:** 

Remarks : This information is not available.

**Components:** 

calcium dihydroxide:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Assessment : Does not cause skin sensitisation.

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Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.

GLP : yes

Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:** 

calcium dihydroxide:

Genotoxicity in vitro : Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Carcinogenicity

**Product:** 

Remarks : No data available

**Components:** 

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Carcinogenicity - : Not classifiable as a human carcinogen.

Assessment

calcium dihydroxide:

Carcinogenicity - : No evidence of carcinogenicity in animal studies.

Assessment

Reproductive toxicity

**Product:** 



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Effects on fertility : Remarks: No data available

Effects on foetal : Remarks: No data available

development

**Components:** 

calcium dihydroxide:

Reproductive toxicity - : - Fertility -

Assessment No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

STOT - single exposure

**Product:** 

Remarks : No data available

**Components:** 

calcium dihydroxide:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

**Product:** 

Remarks : No data available

Repeated dose toxicity

**Product:** 

Remarks : This information is not available.

**Aspiration toxicity** 

**Product:** 

This information is not available.

**Components:** 

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

May be fatal if swallowed and enters airways.

May be harmful if swallowed and enters airways.

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**Further information** 

**Product:** 

Remarks Ingestion causes irritation of upper respiratory system and

gastrointestinal disturbance.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

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

the toxicology of similar products.

**SECTION 12: Ecological information** 

12.1 Toxicity

**Product:** 

: Remarks: No data available Toxicity to fish

Toxicity to daphnia and other : Remarks: No data available

aquatic invertebrates

Toxicity to algae/aquatic

plants

: Remarks: No data available

Toxicity to microorganisms

Remarks: No data available

12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

Physico-chemical

removability

: Remarks: No data available

12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

**Product:** 

Mobility : Remarks: No data available

Distribution among : Remarks: No data available

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environmental compartments

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : 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.

#### 12.6 Other adverse effects

#### **Product:**

Endocrine disrupting

potential

: 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.

Additional ecological

information

: 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.

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

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## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

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

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)

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

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

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.

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This product does not contain

substances of very high concern

(UK: The REACH etc. (Amendment)

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## **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation (UK SVHC)

Regulations, Article 57).

The Persistent Organic Pollutants Regulations (retained : Not applicable

Regulation (EU) 2019/1021 as amended for Great Britain)

(GB POPs)

Regulation (EC) No 1005/2009 on substances that : Not applicable

deplete the ozone layer

(EC 1005/2009)

Regulation (EU) 2019/1148 on the marketing and use of : Not applicable

explosives precursors

UK REACH List of substances subject to authorisation : Not applicable

(Annex XIV)

(UK. REACH Annex XIV)

GB Export and import of hazardous chemicals - Prior : Not applicable

Informed Consent (PIC) Regulation

(GB PIC)

Control of Major Accident Hazards Regulations Not applicable

2015 (COMAH)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

#### 15.2 Chemical safety assessment

This information is not available.

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## **SECTION 16: Other information**

#### **Full text of H-Statements**

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H318 : Causes serious eye damage. H335 : May cause respiratory irritation.

#### Full text of other abbreviations

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a

fourth list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2017/164/EU / STEL : Short term exposure limit 2017/164/EU / TWA : Limit Value - eight hours

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 - GB



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Version Revision Date: Date of last issue: 13.01.2023 Print Date: 2.5 04.06.2024 Date of first issue: 30.03.2013 04.06.2024

Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

## Classification of the mixture: Classification procedure:

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method

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