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

1.1 Product identifier

Product name MICROLUBE GB 0

Article-No. 020232

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

Use of the Sub-

stance/Mixture

: Grease

on use

Recommended restrictions : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

: Klüber Lubrication München Company

> Geisenhausenerstr. 7 81379 München Deutschland

Tel: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333 info@klueber.com

E-mail address of person mcm@klueber.com

responsible for the SDS Material Compliance Management

National contact Klüber Lubrication Belgium Netherlands

Rue Cardinal Mercier 100

7711 Dottignies

Belgium

Tel: +32 56 483333 Fax: +32 56 486252 sales@be.klueber.com

1.4 Emergency telephone number

Emergency telephone num-

ber

070 245 245 Antigifcentrum / Centre antipoisons

+49 89 7876 700 (24 hrs)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

(!)

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

ter 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 Labelling

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.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mineral oil. lithium soap

silicate

Components

Chemical name	CAS-No.	Classification	specific concen-	Concentration
Chemical name	EC-No.	Ciassification	tration limit	(% w/w)
	20140.		M-Factor	(70 W/W)
	Index-No.		Notes	
	Registration number		Acute toxicity	
			estimate	
Phosphorodithioic	85940-28-9	Skin Irrit.2; H315		>= 1 - < 2,5
acid, mixed O,O-bis(2-	288-917-4	Eye Dam.1; H318		
ethylhexyl and iso-Bu		Aquatic Chronic2;		
and iso-Pr) esters,	01-2119521201-61-	H411		
zinc salts	XXXX			
1 2 4 Thiodicacliding		Aguatia Chronia?		>= 1 - < 2,5
1,3,4-Thiadiazolidine- 2,5-dithione, reaction	939-692-2	Aquatic Chronic3; H412		>= 1 - < 2,5
products with hydro-	959-092-2	11412		
gen peroxide and tert-				
dodecanethiol	01-2119983498-16-			
	XXXX			
dibutyl [[bis[(2-	68413-48-9	Skin Sens.1B;		>= 0,25 - < 1
ethylhex-	270-220-1	H317		
yl)oxy]phosphinothioyl	04 0400700000 07	Aquatic Chronic4;		
]thio]succinate	01-2120786863-37- XXXX	H413		
Benzenesulfonic acid,		Skin Sens.1B;	> 10 - 100 %	>= 0,1 - < 1
di-C10-14-alkyl	939-603-7	H317	Skin Sens.1B,	- ,
derivs., calcium salts			H317	
	01-2119978241-36-			
	XXXX			
Substances with a work	nlace exposure limit :			
residual oils (petrole-	64742-62-7	Not classified		>= 50 - < 70
um), solvent-dewaxed	265-166-0			33 .0
,,			Note L	
	649-471-00-X			

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	01-2119480472-38- xxxx			
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25- XXXX	Not classified	Note L	>= 10 - < 20
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified	64742-52-5 265-155-0 649-465-00-7 01-2119467170-45- XXXX	Not classified	Note L	>= 1 - < 10
lithium 12- hydroxystearate	7620-77-1 231-536-5 01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX	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.



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

for at least 10 minutes. Seek medical advice.

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.

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

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- :

ucts

Carbon oxides

Nitrogen oxides (NOx)

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.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

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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.

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 : Do not allow contact with soil, surface or ground water.

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.

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.



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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.

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- leum), solvent- dewaxed	64742-62-7	TLV 8 hr (Mist)	5 mg/m3	BE OEL (2020-12-08)
		TLV 15 min (Mist)	10 mg/m3	BE OEL (2020-12-08)
distillates (petrole- um), hydrotreated heavy paraffinic	64742-54-7	TLV 8 hr (Mist)	5 mg/m3	BE OEL (2020-12-08)
		TLV 15 min (Mist)	10 mg/m3	BE OEL (2020-12-08)
Distillates (petrole- um), hydrotreated heavy naphthenic; Baseoil — un- specified	64742-52-5	TLV 8 hr (Mist)	5 mg/m3	BE OEL (2020-12-08)
		TLV 15 min (Mist)	10 mg/m3	BE OEL (2020-12-08)
lithium 12- hydroxystearate	7620-77-1	TLV 8 hr	10 mg/m3	BE OEL (2006-03-23)

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

Substance name	End Use	Exposure routes	Potential health ef- fects	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
distillates (petroleum), hydrotreated heavy paraffinic	Workers	Inhalation	Long-term local effects	5,6 mg/m3



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silicon dioxide	Workers	Inhalation		4 mg/m3
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
Phosphorodithioic acid, mixed O,O- bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	Workers	Inhalation	Long-term systemic effects	6,6 mg/m3
	Workers	Dermal	Long-term systemic effects	9,6 mg/kg bw/day
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydro- gen peroxide and tert- dodecanethiol	Workers	Inhalation		4,408 mg/m3
	Workers	Dermal		6,25 mg/kg bw/day
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	Workers	Inhalation	Long-term systemic effects	35,26 mg/m3
	Workers	Dermal	Long-term systemic effects	25 mg/kg

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		
distillates (petroleum), hy-	Oral	9,33 mg/kg
drotreated heavy paraffinic		
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
	Soil	0,118 mg/kg
Phosphorodithioic acid, mixed	Fresh water	0,002 mg/l
O,O-bis(2-ethylhexyl and iso-Bu		·
and iso-Pr) esters, zinc salts		
	Marine water	0,0002 mg/l



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	Fresh water sediment	19,3 mg/kg
	Marine sediment	1,93 mg/kg
	Soil	15,7 mg/kg
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol	Fresh water	0,041 mg/l
	Marine water	0,0041 mg/l
	Fresh water sediment	380,62 mg/kg
	Marine sediment	38,06 mg/kg
	Sewage treatment plant	8000 mg/l
	Soil	308,98 mg/kg
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	Fresh water	0,1 mg/l
	Marine water	0,1 mg/l
	Fresh water sediment	45211 mg/kg
	Marine sediment	45211 mg/kg
	Microbiological Activity in Sewage Treatment Systems	1000 mg/l
	Soil	36739 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

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at the specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : paste

Colour : red

Odour : characteristic

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : 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

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable

substance/mixture is non-soluble (in water)

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



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Vapour pressure : < 0,001 hPa (20 °C)

Relative density : 0,90 (20 °C)

Reference substance: Water The value is calculated

Density : 0,90 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

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.

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SECTION 11: Toxicological information

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

Acute toxicity

Product:

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

Acute dermal toxicity : Symptoms: Redness, Local irritation

Components:

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

salts:

Acute oral toxicity : LD50 (Rat): 3.080 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rat): > 20.000 mg/kg

Method: OECD Test Guideline 402

GLP: no

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-

dodecanethiol:

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

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

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

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

Method: OECD Test Guideline 401

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

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

Acute inhalation toxicity : LC50 (Rat): > 1,9 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Assessment: The substance or mixture has no acute dermal

toxicity

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residual oils (petroleum), solvent-dewaxed:

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

distillates (petroleum), hydrotreated heavy paraffinic:

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

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5,53 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

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

Method: OECD Test Guideline 402

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

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

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Method: OECD Test Guideline 402

GLP: yes

lithium 12-hydroxystearate:

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

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 3.000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

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Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

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

salts:

Assessment : Irritating to skin. Result : Irritating to skin.

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol:

Species : Rabbit

Assessment : No skin irritation Result : No skin irritation

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

Species : Rabbit

Assessment : No skin irritation Result : No skin irritation

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Assessment : No skin irritation

Method : OECD Test Guideline 404

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

distillates (petroleum), hydrotreated heavy paraffinic:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

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

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

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lithium 12-hydroxystearate:

Assessment : No skin irritation

Method : OECD Test Guideline 439

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Irritating to eyes.

Components:

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

salts:

Assessment : Risk of serious damage to eyes. Result : Risk of serious damage to eyes.

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol:

Species : Rabbit

Assessment : No eye irritation Result : No eye irritation

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

Species : Rabbit

Assessment : No eye irritation Result : No eye irritation

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No skin irritation

residual oils (petroleum), solvent-dewaxed:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

distillates (petroleum), hydrotreated heavy paraffinic:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes



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

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

lithium 12-hydroxystearate:

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:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.
Result : Does not cause skin sensitisation.

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.

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Assessment : Probability or evidence of low to moderate skin sensitisation

rate in humans

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

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

distillates (petroleum), hydrotreated heavy paraffinic:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406



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Result : Does not cause skin sensitisation.

GLP : yes

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

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

lithium 12-hydroxystearate:

Exposure routes : Dermal Species : Mouse

Method : OECD Test Guideline 429

Result : negative

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

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

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

residual oils (petroleum), solvent-dewaxed:

Germ cell mutagenicity- As-

sessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

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

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative



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Germ cell mutagenicity- As-

sessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Carcinogenicity

Product:

Remarks : No data available

Components:

residual oils (petroleum), solvent-dewaxed:

Carcinogenicity - Assess-

: No evidence of carcinogenicity in animal studies.

ment

distillates (petroleum), hydrotreated heavy paraffinic:

ment

Carcinogenicity - Assess- : Not classifiable as a human carcinogen.

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

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

: Remarks: No data available

Components:

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Reproductive toxicity - As-: - Fertility -

sessment

No toxicity to reproduction

- Teratogenicity -

No toxicity to reproduction

residual oils (petroleum), solvent-dewaxed:

Reproductive toxicity - As-

- Fertility -

sessment

No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

distillates (petroleum), hydrotreated heavy paraffinic:

a brand of **TREUDENBERG**

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Reproductive toxicity - As-

: - Fertility -

sessment

No toxicity to reproduction

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

Effects on foetal develop-

Species: Rat

ment

Application Route: Dermal

General Toxicity Maternal: LOAEL: 125 mg/kg body weight Teratogenicity: NOAEL: >= 2.000 mg/kg body weight Developmental Toxicity: NOAEL: >= 2.000 mg/kg body weight Embryo-foetal toxicity: NOAEL: >= 2.000 mg/kg body weight

Method: OECD Test Guideline 414

Result: No effects on fertility and early embryonic develop-

ment were detected.

Reproductive toxicity - As-

sessment

: - Fertility -

No toxicity to reproduction

- Teratogenicity -

No toxicity to reproduction

STOT - single exposure

Components:

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

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Components:

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

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Aspiration toxicity

Product:

This information is not available.



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Components:

residual oils (petroleum), solvent-dewaxed:

No aspiration toxicity classification

distillates (petroleum), hydrotreated heavy paraffinic:

No aspiration toxicity classification

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

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

levels of 0.1% or higher.

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:

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



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Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 5,4 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aguatic

plants

EC50 (Selenastrum capricornutum (green algae)): 2,1 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,4 mg/l Exposure time: 48 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 41 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): > 100

mg/l

Exposure time: 72 h

Toxicity to microorganisms EC50 (Pseudomonas putida): > 8.000 mg/l

Exposure time: 16 h

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: ves

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

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:



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Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 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

NOELR (Desmodesmus subspicatus (green algae)): 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

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/l Exposure time: 96 h

Test Type: semi-static test

Method: OECD Test Guideline 202

NOEC: >= 10.000 mg/l Exposure 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

distillates (petroleum), hydrotreated heavy paraffinic:

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

Exposure time: 96 h

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Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10.000 mg/l

Exposure time: 48 h Test Type: Immobilization

Method: OECD Test Guideline 202

GLP: yes

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

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

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

> Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10.000 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

LC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOELR: >= 1.000 mg/l

Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Remarks: The value is calculated

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOELR: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Test Type: Reproduction Test Method: OECD Test Guideline 211

lithium 12-hydroxystearate:

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Toxicity to fish

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

Method: OECD Test Guideline 203

GLP: yes

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aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): > 160

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 160

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

12.2 Persistence and degradability

Product:

Remarks: No data available Biodegradability

Physico-chemical removabil- :

ity

Remarks: No data available

Components:

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

salts:

Biodegradability : Result: Not rapidly biodegradable

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol:

Biodegradability Result: Not rapidly biodegradable

Biodegradation: 0 % Exposure time: 28 d

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

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Biodegradability Result: Not readily biodegradable.

> Biodegradation: 8 % Exposure time: 28 d

Method: OECD Test Guideline 301D

residual oils (petroleum), solvent-dewaxed:



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Biodegradability Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

distillates (petroleum), hydrotreated heavy paraffinic:

Biodegradability Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

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

Biodegradability Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: ves

lithium 12-hydroxystearate:

Biodegradability Test Type: Primary biodegradation

Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: 74,7 %

Exposure time: 28 d

Method: OECD Test Guideline 301C

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:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol:

Bioaccumulation : Bioconcentration factor (BCF): 3,16

Partition coefficient: n-

octanol/water

: log Pow: 8



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

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

octanol/water Method: OECD Test Guideline 117

GLP: yes

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Bioaccumulation : Bioconcentration factor (BCF): 70,8

Partition coefficient: n-

octanol/water

: log Pow: 26,22 (20 °C)

residual oils (petroleum), solvent-dewaxed:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-

octanol/water

: Pow: > 3,5

distillates (petroleum), hydrotreated heavy paraffinic:

Partition coefficient: n-

octanol/water

: log Pow: > 2

lithium 12-hydroxystearate:

Partition coefficient: n-

octanol/water

: log Pow: 2,6

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:

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.

Components:

residual oils (petroleum), solvent-dewaxed:

Assessment : This substance is not considered to be very persistent and

very bioaccumulating (vPvB).. This substance is not consid-

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



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ered to be persistent, bioaccumulating and toxic (PBT).

distillates (petroleum), hydrotreated heavy paraffinic:

Assessment : Non-classified vPvB substance. Non-classified PBT substance

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

Assessment : Non-classified PBT substance. Non-classified vPvB substance

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:

Additional ecological infor-

mation

: 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

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
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

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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 mix-

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)

- : Not applicable

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

plete the ozone layer (EC 1005/2009)

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

n : 34

Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a)

to (d)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)



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Volatile organic compounds (VOC) content: 3,68 %

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

Causes skin irritation. H315

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Toxic to aquatic life with long lasting effects. H411 Harmful to aquatic life with long lasting effects. H412 May cause long lasting harmful effects to aquatic life. H413

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 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

BE OEL Belgium. Occupational exposure limit values

BE OEL / TLV 8 hr Long term exposure limit BE OEL / TLV 15 min Short term exposure limit

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 car-

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rying 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

Classification of the mixture: Classification procedure:

Eye Irrit. 2 H319 Calculation method

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