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



**OKS 2301** 

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

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

1.1 Product identifier

Product name : OKS 2301

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

Use of the Sub-

stance/Mixture

: Anticorrosion additive

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

responsible for the SDS

mcm@oks-germany.com

Material Compliance Management

National contact : EagleBurgmann Hungaria Kft.

Népfürdő utca 22 1138 Budapest

Hungary

Tel.: +36 1 814 8160 Fax: +36 1 319 8125

info.hu@eagleburgmann.com

1.4 Emergency telephone number

Emergency telephone num-

0049 (0) 8142-3051-517

ber

Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)

H-1096 Budapest, Nagyvárad tér 2. Tel: +36 1 476 6464, +36 80 201 199

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

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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



**OKS 2301** 

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Long-term (chronic) aquatic hazard, Cat-

egory 2

H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard pictograms :







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated. H304 May be fatal if swallowed and enters air-

ways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin

dryness or cracking.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P211 Do not spray on an open flame or other

ignition source.

P251 Do not pierce or burn, even after use. P273 Avoid release to the environment.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

Storage:

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:



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



# **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

#### **Additional Labelling**

EUH208 Contains calcium bis(dinonylnaphthalenesulphonate). 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 : Active substance with propellant

Solvent

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concentration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
Hydrocarbons, C9- C11, n-alkanes, isoal- kanes, cyclics, <2% aromatics	265-150-3 01-2119463258-33	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411; EUH066	Note P	>= 30 - < 50
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1)	>= 1 - < 10



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



## **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 1 - < 10
calcium bis(dinonylnaphthalen esulphonate)	57855-77-3 260-991-2	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317		>= 0,1 - < 1
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7 01-2119492616-28- XXXX	Skin Sens.1B; H317	>= 10 % Skin Sens.1B,	>= 0,1 - < 1
Substances with a workplace exposure limit :				
butane	106-97-8 203-448-7 601-004-00-0	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 30 - < 50

For explanation of abbreviations see section 16.

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

## 4.1 Description of first aid measures

If inhaled : Call a physician or poison control centre immediately.

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.

Get medical attention immediately if irritation develops and

persists.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

Wash skin thoroughly with soap and water or use recognized



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



**OKS 2301** 

Version Revision Date: Date of last issue: 10.08.2018 Print Date: 2.1 29.07.2022 Date of first issue: 22.06.2016 01.08.2022

skin cleanser.

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 accidentally swallowed obtain immediate medical attention.

Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water.

Aspiration hazard if swallowed - can enter lungs and cause

damage.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation may provoke the following symptoms:

Unconsciousness

Dizziness Drowsiness Headache Nausea Tiredness

Skin contact may provoke the following symptoms:

Erythema

Allergic appearance

Aspiration may cause pulmonary oedema and pneumonitis.

Risks : Central nervous system depression

Can be absorbed through skin.

Risk of product entering the lungs on vomiting after ingestion.

Health injuries may be delayed. 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.

Treat symptomatically.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : Fire Hazard

a brand of

FREUDENBERG

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



**OKS 2301** 

Version Revision Date: Date of last issue: 10.08.2018 Print Date: 2.1 29.07.2022 Date of first issue: 22.06.2016 01.08.2022

fighting Do not let product enter drains.

Contains gas under pressure; may explode if heated.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

Hazardous combustion prod- :

ucts

Carbon 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. Cool containers/tanks with water spray.

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

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

Personal precautions : Evacuate personnel to safe areas.

Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective

equipment may intervene.

6.2 Environmental precautions

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

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

Keep in suitable, closed containers for disposal.

Non-sparking tools should be used.

#### 6.4 Reference to other sections

For personal protection see section 8.



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



**OKS 2301** 

Version Revision Date: Date of last issue: 10.08.2018 Print Date: 29.07.2022 Date of first issue: 22.06.2016 01.08.2022 2.1

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

#### 7.1 Precautions for safe handling

Advice on safe handling Do not use in areas without adequate ventilation.

Do not breathe vapours or spray mist.

In case of insufficient ventilation, wear suitable respiratory

equipment.

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

Keep away from fire, sparks and heated surfaces.

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

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 use sparking tools.

These safety instructions also apply to empty packaging which

may still contain product residues.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn,

even after use.

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

handling.

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

Requirements for storage areas and containers

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular na-

tional regulations.

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	Control parameters	Basis
		of exposure)		



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



## **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

butane	106-97-8	TWA	2.350 mg/m3	HU OEL (2020-02-06)
	Further information: Irritants, simple suffocation gases, substances with minor health effects. No correction is required.			
		CEIL	9.400 mg/m3	HU OEL (2020-02-06)
	Further information: Irritants, simple suffocation gases, substances with minor health effects. No correction is required.			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
calcium bis(dinonylnaphthalen esulphonate)	Workers	Inhalation	Long-term systemic effects	2,23 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,32 mg/kg

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

Substance name	Environmental Compartment	Value
calcium bis(dinonylnaphthalenesulphonat	Fresh water	0,27 mg/l
e)	Marina water	0.027 mg/l
	Marine water	0,027 mg/l
	Intermittent use/release	2,7 mg/l
	Microbiological Activity in Sewage Treat-	10 mg/l
	ment Systems	
	Fresh water sediment	4,69 mg/kg
	Marine sediment	0,469 mg/kg
	Soil	0,936 mg/kg

#### 8.2 Exposure controls

#### **Engineering measures**

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

## 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.



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



**OKS 2301** 

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

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 : Use respiratory protection unless adequate local exhaust ven-

tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Short term only

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.

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

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

Physical state : aerosol

Colour : green

Odour : characteristic

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : -161 °C (1.013 hPa)

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper

flammability limit

10,9 %(V)

Lower explosion limit / Lower

flammability limit

0,6 %(V)

Flash point : -60 °C

Method: Abel-Pensky

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable

substance/mixture is non-soluble (in water)

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



## **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : < 20,5 mm2/s (40 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : 3.700 hPa (20 °C)

Relative density : 0,67 (20 °C)

Reference substance: Water The value is calculated

Density : 0,67 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

Metal corrosion rate : Not corrosive to metals

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.

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



**OKS 2301** 

Version Revision Date: Date of last issue: 10.08.2018 Print Date: 21.09.07.2022 Date of first issue: 22.06.2016 01.08.2022

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 : Heat, flames and sparks.

Strong sunlight for prolonged periods.

Risk of receptacle bursting.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

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: Effects due to ingestion may include:

Symptoms: Central nervous system depression

Acute inhalation toxicity : Remarks: Respiration of solvent vapour may cause dizziness.

Irritating to respiratory system.

Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder, Local irritation, Respiratory disorders, Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central

nervous system depression

Acute dermal toxicity : Remarks: Prolonged or repeated skin contact with liquid may

cause defatting resulting in drying, redness and possible blis-

tering.

Symptoms: Redness, Local irritation, Skin disorders

#### **Components:**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Acute inhalation toxicity : Assessment: The substance or mixture is classified as specific

target organ toxicant, single exposure, category 3 with narcot-

ic effects.

isobutane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l



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



## **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

Exposure time: 4 h Test atmosphere: gas

calcium bis(dinonylnaphthalenesulphonate):

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

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

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

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

Method: OECD Test Guideline 401

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 : (Rabbit): > 5.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

butane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l

Exposure time: 4 h Test atmosphere: gas

Skin corrosion/irritation

**Product:** 

Remarks : This information is not available.

**Components:** 

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Result : Repeated exposure may cause skin dryness or cracking.

calcium bis(dinonylnaphthalenesulphonate):

Species : Rabbit

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

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

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



## **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

#### Serious eye damage/eye irritation

**Product:** 

Remarks : Contact with eyes may cause irritation.

# **Components:**

## calcium bis(dinonylnaphthalenesulphonate):

Species : Rabbit

Assessment : Irritating to eyes. Result : Irritating to eyes.

#### Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

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:**

## calcium bis(dinonylnaphthalenesulphonate):

Species : Guinea pig

Assessment : May cause sensitisation by skin contact.
Result : May cause sensitisation by skin contact.

#### Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Test Type : Buehler Test Species : Guinea pig

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

#### Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Components:

# Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

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

Method: OECD Test Guideline 476

Result: negative



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



**OKS 2301** 

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity- As-

sessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Carcinogenicity

**Product:** 

Remarks : No data available

**Components:** 

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

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:** 

calcium bis(dinonylnaphthalenesulphonate):

Reproductive toxicity - As- : - Fertility -

sessment No toxicity to reproduction

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Oral

General Toxicity - Parent: NOAEL: > 500 mg/kg body weight General Toxicity F1: NOAEL: > 500 mg/kg body weight

Method: OECD Test Guideline 415

Reproductive toxicity - As-

sessment

- Fertility -

No toxicity to reproduction

- Teratogenicity -

No toxicity to reproduction

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



## **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

#### STOT - single exposure

#### **Components:**

## Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Exposure routes : Inhalation

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with narcotic effects.

## calcium bis(dinonylnaphthalenesulphonate):

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

organ toxicant, single exposure.

#### Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

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

organ toxicant, single exposure.

## STOT - repeated exposure

#### **Components:**

### calcium bis(dinonylnaphthalenesulphonate):

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

organ toxicant, repeated exposure.

#### Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

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.

#### **Components:**

# Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Species : Rat
NOAEL : 500 mg/kg
NOAEL : 500 mg/kg
Application Route : Oral
Exposure time : 28

Method : OECD Test Guideline 407

Species:RatNOAEL:0,05 mg/lNOAEL:0,05 mg/lApplication Route:InhalationTest atmosphere:dust/mist



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



## **OKS 2301**

Version Revision Date: Date of last issue: 10.08.2018 Print Date: 2.1 29.07.2022 Date of first issue: 22.06.2016 01.08.2022

Exposure time : 28

Method : OECD Test Guideline 412

Species : Rat

NOAEL : > 1000 mg/kg NOAEL : > 1.000 mg/kg

Application Route : Dermal Exposure time : 28

Method : OECD Test Guideline 410

#### **Aspiration toxicity**

## **Product:**

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

#### **Components:**

#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

May be fatal if swallowed and enters airways.

#### calcium bis(dinonylnaphthalenesulphonate):

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: Toxic to aquatic organisms, may cause long-term

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



**OKS 2301** 

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

adverse effects in the aquatic environment.

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:** 

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

calcium bis(dinonylnaphthalenesulphonate):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 0,28 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0,27 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: No toxicity at the limit of solubility

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 10.000 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1.000 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): >

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



**OKS 2301** 

Version Revision Date: Date of last issue: 10.08.2018 Print Date: 2.1 29.07.2022 Date of first issue: 22.06.2016 01.08.2022

1.500 mg/l plants

Exposure time: 72 h

Test Type: Growth inhibition

Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms LC50 (activated sludge): > 10.000 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

**Ecotoxicology Assessment** 

This product has no known ecotoxicological effects., No toxici-Chronic aquatic toxicity

ty at the limit of solubility

12.2 Persistence and degradability

**Product:** 

Remarks: No data available Biodegradability

Physico-chemical removabil- : Remarks: No data available

ity

**Components:** 

calcium bis(dinonylnaphthalenesulphonate):

Biodegradability : Result: Not readily biodegradable.

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Biodegradability Test Type: aerobic

> Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 8 % Exposure time: 28 d

Method: OECD Test Guideline 301D

GLP: yes

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:** 

propane:

Partition coefficient: n-

octanol/water

log Pow: 2,36



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



**OKS 2301** 

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

isobutane:

Partition coefficient: n- : log Pow: 2,88

octanol/water Method: OECD Test Guideline 107

calcium bis(dinonylnaphthalenesulphonate):

Partition coefficient: n-

octanol/water

: log Pow: 10,96

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is possible.

Partition coefficient: n-

octanol/water

log Pow: 16,09 (25 °C)

butane:

Partition coefficient: n- : log Pow: 2,89

octanol/water Method: OECD Test Guideline 107

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:** 

calcium bis(dinonylnaphthalenesulphonate):

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



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



**OKS 2301** 

Date of last issue: 10.08.2018 Version **Revision Date:** Print Date: 2.1 29.07.2022 Date of first issue: 22.06.2016 01.08.2022

levels of 0.1% or higher.

#### 12.7 Other adverse effects

**Product:** 

mation

Additional ecological infor- : Toxic to aquatic life with long lasting effects.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product 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.

Offer empty spray cans to an established disposal company. Pressurized container: Do not pierce or burn, even after use.

The following Waste Codes are only suggestions:

Waste Code unused product, packagings not completely emptied

16 05 04\*, gases in pressure containers (including halons)

containing hazardous substances

# **SECTION 14: Transport information**

#### 14.1 UN number or ID number

**ADN** UN 1950 **ADR** UN 1950 RID : UN 1950 **IMDG** UN 1950 **IATA** UN 1950

#### 14.2 UN proper shipping name

**ADN** : AEROSOLS ADR : AEROSOLS RID **AEROSOLS** 



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



## **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

IMDG : AEROSOLS

(Naphtha, petroleum, hydrotreated heavy)

IATA : Aerosols, flammable

14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

**ADN** 

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

**ADR** 

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

**RID** 

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23 Labels : 2.1

**IMDG** 

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen: 203

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

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



**OKS 2301** 

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

**ADR** 

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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

: P2

Seveso III: Directive 2012/18/EU of the European P3a FLAMMABLE AEROSOLS



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



## **OKS 2301**

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

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

#### E2 ENVIRONMENTAL HAZARDS

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)

ιο (α)

Liquefied extremely flammable gases (including LPG) and natural gas

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

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 90,91 %

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

2000 XXV. Law on chemical safety

44/2000. (XII 27) Ministry of health dangerous substances and preparations dangerous for certain procedures and arrangements for activities

#### 15.2 Chemical safety assessment

This information is not available.

# **SECTION 16: Other information**

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

EUH066 : Repeated exposure may cause skin dryness or cracking.

H220 : Extremely flammable gas. H226 : Flammable liquid and vapour.

H280 : Contains gas under pressure; may explode if heated.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.



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



**OKS 2301** 

VersionRevision Date:Date of last issue: 10.08.2018Print Date:2.129.07.2022Date of first issue: 22.06.201601.08.2022

H319 : Causes serious eye irritation.H336 : May cause drowsiness or dizziness.

H411 : Toxic to aquatic life with long lasting effects.

EUH066 : Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Note C : Some organic substances may be marketed either in a specif-

ic isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the sub-

stance is a specific isomer or a mixture of isomers.

Note P : The harmonised classification as a carcinogen or mutagen

applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 +

P310-P331 shall apply.

Note U (table 3.1) : When put on the market gases have to be classified as "Gas-

es under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part

2, Section 2.3.2.1, Note 2).

HU OEL : Hungary. Occupational Exposure Limits - Annex 1: Permissi-

ble concentration values

HU OEL / TWA : Mean concentration HU OEL / CEIL : Peak concentration

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

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



### **OKS 2301**

Version Revision Date: Date of last issue: 10.08.2018 Print Date: 21.09.07.2022 Date of first issue: 22.06.2016 01.08.2022

- 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:

Aerosol 1 H222, H229 Calculation method STOT SE 3 H336 Calculation method

Asp. Tox. 1 H304 Based on product data or assessment

Aquatic Chronic 2 H411 Calculation method

This safety data sheet applies only to products as originally packed and labelled. The information contained therein may not be reproduced or modified without our express written permission. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of the safety data sheet (e.g. as a document for download from the Internet) is not permitted without our express written consent. We provide our customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.

