

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

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

1.1 Product identifier

Product name : OKS 2541

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

Use of the Substance/Mixture : Anticorrosion additive, Base coating

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 :

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)

| | |
|--|---|
| Aerosols, Category 1 | H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. |
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness. |
| Long-term (chronic) aquatic hazard, | H412: Harmful to aquatic life with long lasting |

SAFETY DATA SHEET

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



OKS 2541

Version
3.2

Revision Date:
16.12.2022

Date of last issue: 11.05.2021
Date of first issue: 30.03.2013

Print Date:
16.12.2022

Category 3

effects.

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

:

H222
H229
H319
H336
H412

Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Harmful 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.

P261

Avoid breathing mist.

P273

Avoid release to the environment.

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:

ethyl acetate

n-butyl acetate

acetone

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Additional Labelling

EUH208

Contains nickel. May produce an allergic reaction.

SAFETY DATA SHEET

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



OKS 2541

Version
3.2

Revision Date:
16.12.2022

Date of last issue: 11.05.2021
Date of first issue: 30.03.2013

Print Date:
16.12.2022

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Active agent with propellant and solvent.
Metal powder

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | specific concentration limit M-Factor Notes Acute toxicity estimate | Concentration (% w/w) |
|---|---|--|---|--------------------------|
| ethyl acetate | 141-78-6 205-500-4 607-022-00-5 | Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336; EUH066 | | >= 20 - < 30 |
| n-butyl acetate | 123-86-4 204-658-1 607-025-00-1 | Flam. Liq.3; H226 STOT SE3; H336; EUH066 | | >= 10 - < 20 |
| acetone | 67-64-1 200-662-2 606-001-00-8 | Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336 | | >= 1 - < 10 |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | 920-750-0 | Flam. Liq.2; H225 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411 | | >= 1 - < 2.5 |
| Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | 64742-49-0 926-605-8 649-328-00-1 | Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411 | | >= 1 - < 2.5 |

SAFETY DATA SHEET

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



OKS 2541

Version
3.2

Revision Date:
16.12.2022

Date of last issue: 11.05.2021
Date of first issue: 30.03.2013

Print Date:
16.12.2022

| | | | | |
|--|--|--|-----------------------------|-----------------|
| nickel | 7440-02-0 231-111-4 028-002-00-7 | Skin Sens.1; H317 Carc.2; H351 STOT RE1; H372 Aquatic Chronic4; H413 | | >= 0.25 - < 1 |
| cyclohexane | 110-82-7 203-806-2 601-017-00-1 | Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Acute1; H400 Aquatic Chronic1; H410 | | >= 0.1 - < 0.25 |
| n-hexane | 110-54-3 203-777-6 601-037-00-0 | Flam. Liq.2; H225 Skin Irrit.2; H315 Repr.2; H361 STOT SE3; H336 STOT RE2; H373 Asp. Tox.1; H304 Aquatic Chronic2; H411 | >= 5 % STOT RE2, H373 | >= 0.1 - < 0.25 |
| Substances with a workplace exposure limit : | | | | |
| dimethyl ether | 115-10-6 204-065-8 603-019-00-8 | Flam. Gas1A; H220 Press. GasLiquefied gas; H280 | | >= 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 respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Get medical attention immediately if irritation develops and persists.

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

Wash clothing before reuse.
Thoroughly clean shoes before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
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.

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

Risks : Central nervous system depression
Can be absorbed through skin.
Causes skin irritation.
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 firefighting : Fire Hazard
Do not let product enter drains.
Contains gas under pressure; may explode if heated.
Beware of vapours accumulating to form explosive

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

concentrations. Vapours can accumulate in low areas.

Hazardous combustion products : 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 decomposition 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 absorbent 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.

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

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 exposure - obtain special instructions before use.
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 used.
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.
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : 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 national 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

SAFETY DATA SHEET

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



OKS 2541

Version
3.2

Revision Date:
16.12.2022

Date of last issue: 11.05.2021
Date of first issue: 30.03.2013

Print Date:
16.12.2022

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---------------------------------|----------|-------------------------------|--------------------------------------|--|
| dimethyl ether | 115-10-6 | TWA | 400 ppm 766 mg/m ³ | GB EH40GB EH40 (2005-04-06) |
| | | STEL | 500 ppm 958 mg/m ³ | GB EH40GB EH40 (2005-04-06) |
| | | TWA | 1,000 ppm 1,920 mg/m ³ | 2000/39/EC2 000/39/EC (2000-06-16) |
| Further information: Indicative | | | | |
| ethyl acetate | 141-78-6 | TWA | 200 ppm 734 mg/m ³ | GB EH40GB EH40 (2018-08-01) |
| | | STEL | 400 ppm 1,468 mg/m ³ | GB EH40GB EH40 (2018-08-01) |
| | | STEL | 400 ppm 1,468 mg/m ³ | 2017/164/EU 2017/164/EU (2017-02-01) |
| Further information: Indicative | | | | |
| | | TWA | 200 ppm 734 mg/m ³ | 2017/164/EU 2017/164/EU (2017-02-01) |
| Further information: Indicative | | | | |
| n-butyl acetate | 123-86-4 | TWA | 150 ppm 724 mg/m ³ | GB EH40GB EH40 (2005-04-06) |
| | | STEL | 200 ppm 966 mg/m ³ | GB EH40GB EH40 (2005-04-06) |
| | | STEL | 150 ppm 723 mg/m ³ | 2019/1831/E U2019/1831/ EU (2019-10-31) |
| Further information: Indicative | | | | |
| | | TWA | 50 ppm 241 mg/m ³ | 2019/1831/E U2019/1831/ EU (2019-10-31) |
| Further information: Indicative | | | | |
| acetone | 67-64-1 | TWA | 500 ppm 1,210 mg/m ³ | GB EH40GB EH40 (2005-04-06) |
| | | STEL | 1,500 ppm | GB EH40GB |

SAFETY DATA SHEET

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



OKS 2541

Version
3.2

Revision Date:
16.12.2022

Date of last issue: 11.05.2021
Date of first issue: 30.03.2013

Print Date:
16.12.2022

| | | | | |
|---|-----------|------|------------------------|--|
| | | | 3,620 mg/m3 | EH40 (2005-04-06) |
| | | TWA | 500 ppm 1,210 mg/m3 | 2000/39/EC2 000/39/EC (2000-06-16) |
| Further information: Indicative | | | | |
| nickel | 7440-02-0 | TWA | 0.5 mg/m3 (Nickel) | GB EH40GB EH40 (2020-01-01) |
| Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Capable of causing occupational asthma., Capable of causing cancer and/or heritable genetic damage. | | | | |
| cyclohexane | 110-82-7 | TWA | 100 ppm 350 mg/m3 | GB EH40GB EH40 (2005-04-06) |
| | | STEL | 300 ppm 1,050 mg/m3 | GB EH40GB EH40 (2005-04-06) |
| | | TWA | 200 ppm 700 mg/m3 | 2006/15/EC2 006/15/EC (2006-02-09) |
| Further information: Indicative | | | | |
| n-hexane | 110-54-3 | TWA | 20 ppm 72 mg/m3 | GB EH40GB EH40 (2007-08-01) |
| | | TWA | 20 ppm 72 mg/m3 | 2006/15/EC2 006/15/EC (2006-02-09) |
| Further information: Indicative | | | | |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|-----------------|---------|-----------------|----------------------------|------------|
| dimethyl ether | Workers | Inhalation | Long-term exposure | 1894 mg/m3 |
| ethyl acetate | Workers | Inhalation | Long-term systemic effects | 734 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 63 mg/kg |
| n-butyl acetate | Workers | Inhalation | Long-term systemic effects | 300 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 600 mg/m3 |
| | Workers | Dermal | Long-term local effects | 11 mg/cm2 |
| acetone | Workers | Inhalation | Long-term systemic effects | 1210 mg/m3 |
| | Workers | Skin contact | Long-term systemic | 186 mg/kg |

SAFETY DATA SHEET

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



OKS 2541

Version
3.2

Revision Date:
16.12.2022

Date of last issue: 11.05.2021
Date of first issue: 30.03.2013

Print Date:
16.12.2022

| | | | | |
|----------|---------|--------------|---------------------------------------|----------------------|
| n-hexane | Workers | Inhalation | effects Long-term systemic effects | 75 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 11 mg/kg |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|-----------------|--|--------------|
| dimethyl ether | Fresh water | 0.155 mg/l |
| | Marine water | 0.016 mg/l |
| | Sewage treatment plant | 160 mg/l |
| | Fresh water sediment | 0.681 mg/kg |
| | Marine sediment | 0.069 mg/kg |
| ethyl acetate | Soil | 0.045 mg/kg |
| | Fresh water | 0.24 mg/l |
| | Marine water | 0.024 mg/l |
| | Sewage treatment plant | 650 mg/l |
| n-butyl acetate | Fresh water sediment | 1.15 mg/kg |
| | Marine sediment | 0.115 mg/kg |
| | Soil | 0.148 mg/kg |
| | Fresh water | 0.18 mg/l |
| | Marine water | 0.018 mg/l |
| acetone | Microbiological Activity in Sewage Treatment Systems | 35.6 mg/l |
| | Fresh water sediment | 0.981 mg/kg |
| | Marine sediment | 0.0981 mg/kg |
| | Soil | 0.09 mg/kg |
| acetone | Fresh water | 10.6 mg/l |
| | Marine water | 1.06 mg/l |
| | Sewage treatment plant | 100 mg/l |
| | Fresh water sediment | 30.4 mg/kg |
| | Marine sediment | 3.04 mg/kg |
| | Soil | 29.5 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.

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|----------------|------------------------------|---|---------------------------|
| Version 3.2 | Revision Date: 16.12.2022 | Date of last issue: 11.05.2021 Date of first issue: 30.03.2013 | Print Date: 16.12.2022 |
|----------------|------------------------------|---|---------------------------|

- 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 : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Filter type : Recommended Filter type:
Organic gas and low boiling vapour type (AX)
- 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

- Appearance : aerosol
- Colour : silver
- Odour : characteristic
- Odour Threshold : No data available
- pH : Not applicable
substance/mixture is non-soluble (in water)
- Melting point/range : No data available
- Boiling point/boiling range : Not applicable
- Flash point : -41.00 °C
Method: Abel-Pensky, closed cup
- Evaporation rate : No data available
- Flammability (solid, gas) : Extremely flammable aerosol.
- Upper explosion limit / Upper flammability limit : 18.6 %(V)

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

Lower explosion limit / Lower flammability limit : 1.5 %(V)

Vapour pressure : 5,900 hPa (20 °C)

Relative vapour density : No data available

Density : 0.78 g/cm³
(20 °C)

Bulk density : No data available

Solubility(ies)
Water solubility : partly soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : 235 °C

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

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

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

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

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 toxicological effects

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.
Harmful by inhalation.
Symptoms: Inhalation may provoke the following symptoms:,
Respiratory disorder, 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
blistering.
Symptoms: Redness, Local irritation, Skin disorders

Components:

ethyl acetate:

Acute oral toxicity : LD50 (Rat): 5,620 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg

n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10,768 mg/kg

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|----------------|------------------------------|---|---------------------------|
| Version 3.2 | Revision Date: 16.12.2022 | Date of last issue: 11.05.2021 Date of first issue: 30.03.2013 | Print Date: 16.12.2022 |
|----------------|------------------------------|---|---------------------------|

Acute inhalation toxicity : LC50 (Rat): > 21 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 17,600 mg/kg

acetone:

Acute oral toxicity : LD50 Oral (Rat): 5,800 mg/kg

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

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

cyclohexane:

Acute inhalation toxicity : Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

n-hexane:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 259.35 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 3,350 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

dimethyl ether:

Acute inhalation toxicity : LC50 (Rat): 309 mg/l
Exposure time: 4 h
Test atmosphere: gas

Skin corrosion/irritation

Product:

Remarks : Irritating to skin.

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

Components:

ethyl acetate:

Species : Rabbit
Result : Mild skin irritation

Result : Repeated exposure may cause skin dryness or cracking.

n-butyl acetate:

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : Repeated exposure may cause skin dryness or cracking.

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Species : Rabbit
Result : Skin irritation

cyclohexane:

Result : Skin irritation

n-hexane:

Species : Rabbit
Assessment : Irritating to skin.
Method : OECD Test Guideline 404
Result : Irritating to skin.

dimethyl ether:

Assessment : No skin irritation
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Irritating to eyes.

Components:

ethyl acetate:

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

n-butyl acetate:

Species : Rabbit
Assessment : No eye irritation
Method : OECD Test Guideline 405

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

Result : No eye irritation
GLP : yes

acetone:

Species : Rabbit
Result : Eye irritation

n-hexane:

Species : Rabbit
Assessment : No eye irritation
Method : OECD Test Guideline 405
Result : No eye irritation

dimethyl ether:

Assessment : No eye irritation
Result : No eye irritation

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

ethyl acetate:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

n-butyl acetate:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

nickel:

Assessment : Probability or evidence of skin sensitisation in humans
Result : May cause sensitisation by skin contact.

n-hexane:

Species : Mouse

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

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

dimethyl ether:

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

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

n-butyl acetate:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster cells
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity-
Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.

dimethyl ether:

Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Species: Drosophila melanogaster (vinegar fly)
Application Route: inhalation (gas)
Method: OECD Test Guideline 477
Result: negative

Carcinogenicity

Product:

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

Remarks : No data available

Components:

n-butyl acetate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

nickel:

Carcinogenicity - Assessment : Presumed to have carcinogenic potential for humans

dimethyl ether:

Species : Rat
Application Route : inhalation (gas)
Exposure time : 2 Years
: 47 mg/l
Method : OECD Test Guideline 453
Result : negative

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

Components:

n-butyl acetate:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: inhalation (vapour)
General Toxicity - Parent: NOAEC: 750 mg/l
General Toxicity F1: NOAEC: 750 mg/l
General Toxicity F2: NOAEC: 750 mg/l
Method: OECD Test Guideline 416
Result: Embryotoxic effects and adverse effects on the offspring were detected.

Reproductive toxicity - Assessment : - Fertility -
No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
- Teratogenicity -
No toxicity to reproduction

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

n-hexane:

Reproductive toxicity - Assessment : - Fertility -
Suspected human reproductive toxicant

dimethyl ether:

Reproductive toxicity - Assessment : - Fertility -
Animal testing did not show any effects on fertility.

STOT - single exposure

Components:

ethyl acetate:

Exposure routes : Inhalation
Target Organs : Respiratory system
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

n-butyl acetate:

Exposure routes : Inhalation
Target Organs : Central nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

acetone:

Exposure routes : Inhalation
Assessment : May cause drowsiness or dizziness.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Assessment : May cause drowsiness or dizziness.

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Assessment : May cause drowsiness or dizziness.

n-hexane:

Exposure routes : Inhalation
Target Organs : Central nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Components:

ethyl acetate:

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

n-butyl acetate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

nickel:

Exposure routes : inhalation (dust/mist/fume)
Assessment : Causes damage to organs through prolonged or repeated exposure.

n-hexane:

Exposure routes : Inhalation
Target Organs : Central nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

n-butyl acetate:

Species : Rat
NOAEL : 125 mg/kg
Application Route : Oral

Aspiration toxicity

Product:

This information is not available.

Components:

n-butyl acetate:

No aspiration toxicity classification

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

May be fatal if swallowed and enters airways.

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

May be fatal if swallowed and enters airways.

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

cyclohexane:

May be fatal if swallowed and enters airways.

n-hexane:

May be fatal if swallowed and enters airways.

dimethyl ether:

No aspiration toxicity classification

Further information

Product:

Remarks : Risks of irreversible effects after a single exposure. Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term 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

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: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|----------------|------------------------------|---|---------------------------|
| Version 3.2 | Revision Date: 16.12.2022 | Date of last issue: 11.05.2021 Date of first issue: 30.03.2013 | Print Date: 16.12.2022 |
|----------------|------------------------------|---|---------------------------|

This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environmental 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.

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 : Harmful 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:

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

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

ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
IATA : Aerosols, flammable

14.3 Transport hazard class(es)

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

14.4 Packing group

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 aircraft) : 203

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

IATA (Passenger)

Packing instruction : 203
(passenger aircraft)
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

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) : Conditions of restriction for the following entries should be considered:
nickel (Number on list 27)
cyclohexane (Number on list 57)

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).

REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009) : Not applicable

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

Regulation (EU) 2019/1021 on persistent organic pollutants (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

UK REACH List of substances subject to authorisation (Annex XIV) (UK. REACH Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation (GB PIC) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : Listed

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-precursors/docs/list_of_competent_authorities_and_national_contact_points_en.pdf acetone (ANNEX II)

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of R-Phrases

** : Route of exposure cannot be excluded: For certain hazard classes, e.g. STOT, the route of exposure should be indicated in the hazard statement only if it is conclusively proven that no other route of exposure can cause the hazard in accordance to the criteria in Annex I. Under Directive 67/548/EEC the route of exposure was indicated for classifications with R48 when there was data justifying the classification for this route of exposure. The classification under 67/548/EEC indicating the route of exposure has been translated into the corresponding class and category according to this Regulation, but with a general hazard statement not specifying the route of exposure as the necessary information is not available.

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

- Note 7 : Alloys containing nickel are classified for skin sensitisation when the release rate of 0,5 ug Ni/cm²/week, as measured by the European Standard reference test method EN 1811, is exceeded.
- 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 S : This substance may not require a label according to Article 17 (see Section 1.3 of Annex I) (Table 3).
- Note U (table 3.1) : When put on the market gases have to be classified as "Gases 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).

Full text of H-Statements

- EUH066 : Repeated exposure may cause skin dryness or cracking.
- H220 : Extremely flammable gas.
- H225 : Highly flammable liquid and vapour.
- 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.
- H319 : Causes serious eye irritation.
- H336 : May cause drowsiness or dizziness.
- H351 : Suspected of causing cancer.
- H361 : Suspected of damaging fertility or the unborn child.
- H372 : Causes damage to organs through prolonged or repeated exposure.
- H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.
- H411 : Toxic to aquatic life with long lasting effects.
- H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

- ** : Route of exposure cannot be excluded: For certain hazard classes, e.g. STOT, the route of exposure should be indicated in the hazard statement only if it is conclusively proven that no other route of exposure can cause the hazard in accordance to the criteria in Annex I. Under Directive 67/548/EEC the route of exposure was indicated for classifications with R48 when there was data justifying the classification for this route of exposure. The classification under 67/548/EEC indicating the route of exposure has been translated into the corresponding class and category according to this Regulation, but with a general hazard statement not specifying the route of exposure as the necessary information is not available.
- Note 7 : Alloys containing nickel are classified for skin sensitisation when the release rate of 0,5 ug Ni/cm²/week, as measured by the European Standard reference test method EN 1811, is exceeded.
- 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 S : This substance may not require a label according to Article 17 (see Section 1.3 of Annex I) (Table 3).
- Note U (table 3.1) : When put on the market gases have to be classified as "Gases 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).
- 2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
- 2006/15/EC : Europe. Indicative occupational exposure limit values
- 2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
- 2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
- GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
- 2000/39/EC / TWA : Limit Value - eight hours
- 2006/15/EC / TWA : Limit Value - eight hours
- 2017/164/EU / STEL : Short term exposure limit
- 2017/164/EU / TWA : Limit Value - eight hours
- 2019/1831/EU / TWA : Limit Value - eight hours

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

2019/1831/EU / STEL : Short term exposure limit
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; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; 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:

| | |
|-------------------|------------|
| Aerosol 1 | H222, H229 |
| Eye Irrit. 2 | H319 |
| STOT SE 3 | H336 |
| Aquatic Chronic 3 | H412 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method |
| Calculation method |
| 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

SAFETY DATA SHEET

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



OKS 2541

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 11.05.2021 | Print Date: |
| 3.2 | 16.12.2022 | Date of first issue: 30.03.2013 | 16.12.2022 |

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.