

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

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

1.1 Product identifier

Product name : OKS 1710

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

Use of the Sub- : Lubricant
stance/Mixture

Recommended restrictions : Restricted to professional users.
on use

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

E-mail address of person : mcm@oks-germany.com
responsible for the SDS
National contact :

1.4 Emergency telephone number

Emergency telephone num- : +49 8142 3051 517
ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture



Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :  

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

H318 Causes serious eye damage.

Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Hazardous components which must be listed on the label:
Fettalkoholethoxylat

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 : Aqueous emulsion
Wax

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration limits M-Factor Notes | Concentration (% w/w) |
|---------------|---|--|---|-----------------------|
| isopropanol | 67-63-0 200-661-7 603-117-00-0 02-2119457558-25-XXXX | Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336 | | >= 1 - < 10 |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

Version
2.0

Revision Date:
01.09.2020

Date of last issue: 14.02.2018
Date of first issue: 22.06.2016

Print Date:
01.09.2020

| | | | | |
|--|--|---|--|------------------|
| Fettalkoholethoxylat | 68439-49-6 500-212-8 | Acute Tox.4; H302 Eye Dam.1; H318 | | $\geq 3 - < 10$ |
| phosphoric acid | 7664-38-2 231-633-2 015-011-00-6 | Skin Corr.1B; H314 Eye Dam.1; H318 Eye Dam.1; H318 | $\geq 25\%$ Skin Corr.1B, H314 10 - < 25 % Skin Irrit.2, H315 10 - < 25 % Eye Irrit.2, H319 Note B | $\geq 1 - < 3$ |
| Substances with a workplace exposure limit : | | | | |
| Ethene, homopolymer | 618-339-3 | Not classified | | $\geq 10 - < 20$ |
| 2,2',2"-nitrilotriethanol | 102-71-6 203-049-8 01-2119486482-31-XXXX | Not classified | | $\geq 1 - < 10$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

- Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Get medical attention immediately.
- If swallowed : Move the victim to fresh air.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
Do NOT induce vomiting.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.

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
- Risks : Can be absorbed through skin.
Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Fire may cause evolution of:
Carbon oxides
Nitrogen oxides (NO_x)
Oxides of phosphorus
- Do not let product enter drains.
Container may explode if heated.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : 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). Non-sparking tools should be used.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Use only in an area containing explosion proof equipment. Do not use in areas without adequate ventilation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

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.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands and face before breaks and immediately after handling the product.
Ensure all equipment is electrically grounded before beginning transfer operations.
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.
Do not enter areas where used or stored until adequately ventilated.
Do not repack.
Do not re-use empty containers.
These safety instructions also apply to empty packaging which may still contain product residues.
Keep container closed when not in use.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

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

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container closed when not in use. Keep in a cool place away from oxidizing agents. Keep in a dry, cool and well-ventilated place. Do not store together with oxidizing and self-igniting products. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

Storage class (TRGS 510) : 3, Flammable liquids

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 Regulation (EC) No. 1907/2006 - DE



OKS 1710

Version 2.0 Revision Date: 01.09.2020 Date of last issue: 14.02.2018
Date of first issue: 22.06.2016

Print Date:
01.09.2020

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|-------------------------------|----------------------------------|--------------------------|
| Ethene, homopolymer | Not Assigned | AGW (Inhalable fraction) | 10 mg/m ³ | DE TRGS 900 (2014-04-02) |
| Peak-limit: excursion factor (category) | 2;(II) | | | |
| | | AGW (Alveolate fraction) | 1,25 mg/m ³ | DE TRGS 900 (2014-04-02) |
| Peak-limit: excursion factor (category) | 2;(II) | | | |
| 2,2',2''-nitrilotriethanol | 102-71-6 | AGW (Inhalable fraction) | 1 mg/m ³ | DE TRGS 900 (2018-06-07) |
| Peak-limit: excursion factor (category) | 1;(I) | | | |
| Further information | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| isopropanol | 67-63-0 | AGW | 200 ppm 500 mg/m ³ | DE TRGS 900 (2006-01-01) |
| Peak-limit: excursion factor (category) | 2;(II) | | | |
| Further information | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| phosphoric acid | 7664-38-2 | TWA | 1 mg/m ³ | 2000/39/EC (2000-06-16) |
| Further information | Indicative | | | |
| | | STEL | 2 mg/m ³ | 2000/39/EC (2000-06-16) |
| Further information | Indicative | | | |
| | | AGW (Inhalable fraction) | 2 mg/m ³ | DE TRGS 900 (2010-08-04) |
| Peak-limit: excursion factor (category) | 2;(I) | | | |
| Further information | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|---------|--------------------------|---|-----------------------|
| isopropanol | 67-63-0 | Acetone: 25 mg/l (Blood) | Immediately after exposure or after working hours | TRGS 903 (2013-04-04) |
| | | Acetone: 25 mg/l (Urine) | Immediately after exposure or after | TRGS 903 (2013-04- |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

Version 2.0 Revision Date: 01.09.2020 Date of last issue: 14.02.2018 Print Date: 01.09.2020
Date of first issue: 22.06.2016

| | | | | |
|--|--|--|---------------|-----|
| | | | working hours | 04) |
|--|--|--|---------------|-----|

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------------------|---------|-----------------|----------------------------|-----------|
| 2,2',2''-nitrilotriethanol | Workers | Dermal | Long-term systemic effects | 6,3 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 5 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 5 mg/m3 |

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

| Substance name | Environmental Compartment | Value |
|----------------------------|--|-------------|
| 2,2',2''-nitrilotriethanol | Soil | 0,151 mg/kg |
| | Microbiological Activity in Sewage Treatment Systems | 10 mg/l |
| | Fresh water | 0,32 mg/l |
| | Marine water | 0,032 mg/l |
| | Fresh water sediment | 1,7 mg/kg |
| | Marine sediment | 0,17 mg/kg |

8.2 Exposure controls

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.
Maintain air concentrations below occupational exposure standards.

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.

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 : Filter type A-P

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

at the specific workplace.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | |
|--|---|---|
| Appearance | : | liquid |
| Colour | : | white |
| Odour | : | alcohol-like |
| Odour Threshold | : | No data available |
| pH | : | 8,3 (20 °C) Concentration: 100 % |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | 91,5 °C |
| Flash point | : | 38 °C(1.013 hPa) Method: ISO 1516 |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | 49,5 hPa (20 °C) |
| Relative vapour density | : | No data available |
| Relative density | : | 1,00 (20 °C) Reference substance: Water The value is calculated |
| Density | : | 1,00 g/cm ³ (20 °C) |
| Bulk density | : | No data available |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

Solubility(ies)
Water solubility : completely miscible

Solubility in other solvents : No data available

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

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : 8,6 mm²/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

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

Acute dermal toxicity : Symptoms: Redness, Local irritation

Components:

isopropanol:

Acute oral toxicity : LD50 Oral (Rat): 5.840 mg/kg

Fettalkoholethoxylat:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

2,2',2"-nitrilotriethanol:

Acute oral toxicity : LD50 (Rat): 6.400 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Remarks : Irritating to skin.

Components:

phosphoric acid:

Result : Causes burns.

Ethene, homopolymer:

Assessment : No skin irritation
Result : No skin irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

2,2',2''-nitrilotriethanol:

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Risk of serious damage to eyes.

Components:

isopropanol:

Result : Irritating to eyes.

Fettalkoholethoxylat:

Result : Risk of serious damage to eyes.

Ethene, homopolymer:

Assessment : No eye irritation
Result : No eye irritation

2,2',2''-nitrilotriethanol:

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:

Ethene, homopolymer:

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

2,2',2''-nitrilotriethanol:

Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Product:

Remarks : No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

STOT - single exposure

Components:

isopropanol:

Assessment : May cause drowsiness or dizziness.

Ethene, homopolymer:

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

2,2',2''-nitrioltriethanol:

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

STOT - repeated exposure

Components:

Ethene, homopolymer:

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

2,2',2''-nitrioltriethanol:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

Repeated dose toxicity

Product:

Remarks : This information is not available.

Aspiration toxicity

Product:

This information is not available.

Components:

Ethene, homopolymer:

No aspiration toxicity classification

2,2',2''-nitrioltriethanol:

No aspiration toxicity classification

Further information

Product:

Remarks : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Components:

Ethene, homopolymer:

Remarks : Information given is based on data on the components and the toxicology of similar products.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

Components:

2,2',2''-nitrioltriethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 11.800 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (water flea)): 609,88 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: flow-through test

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): 216 mg/l
plants : Exposure time: 72 h
Test Type: static test

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical removabil- : Remarks: No data available
ity

Components:

isopropanol:

Biodegradability : Result: Readily biodegradable.

2,2',2''-nitrioltriethanol:

Biodegradability : Result: Readily biodegradable.

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:

isopropanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: 0,05
octanol/water

2,2',2''-nitrioltriethanol:

Partition coefficient: n- : log Pow: -2,3 (25 °C)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

octanol/water

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..

Components:

Ethene, homopolymer:

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

2,2',2''-nitrioltriethanol:

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

12.6 Other adverse effects

Product:

Additional ecological information : No information on ecology is available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not dispose of with domestic refuse.
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

the unused product.
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste Code : unused product
16 10 01, aqueous liquid wastes containing hazardous substances

uncleaned packagings
15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number

ADR : UN 1993
IMDG : UN 1993
IATA : UN 1993

14.2 UN proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S.
(isopropanol)
IMDG : FLAMMABLE LIQUID, N.O.S.
(isopropanol)
IATA : Flammable liquid, n.o.s.
(isopropanol)

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR
Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

IMDG
Packing group : III
Labels : 3
EmS Code : F-E, S-E

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA (Passenger)

Environmentally hazardous : no

IATA (Cargo)

Environmentally hazardous : 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 Transport in bulk according to Annex II of Marpol and the IBC Code

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 - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : 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) : Not applicable

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

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
P5c FLAMMABLE LIQUIDS

P5c

Water contaminating class (Germany) : WGK 1 slightly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:
others: 16,52 %

Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
portion Class 1: < 0,01 %
others: 35,75 %

Carcinogenic substances:
Not applicable
Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 6,39 %

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

H336 : May cause drowsiness or dizziness.

Full text of other abbreviations

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid ...%". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

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

TRGS 903 : TRGS 903 - Biological limit values

2000/39/EC / TWA : Limit Value - eight hours

2000/39/EC / STEL : Short term exposure limit

DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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;

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



OKS 1710

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 14.02.2018 | Print Date: |
| 2.0 | 01.09.2020 | Date of first issue: 22.06.2016 | 01.09.2020 |

SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance 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:

Flam. Liq. 3

H226

Eye Dam. 1

H318

Classification procedure:

Based on product data or assessment

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.