



Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 29.04.2026


Version number 2.0 (replaces version 1.1)

Revision: 29.04.2026

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

- **1.1 Product identifier**
- **Trade name:** **KEIM STONECLEANER-N**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Cleaning agent
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KEIMFARBEN GMBH
Keimstraße 16 / 86420 Diedorf
Tel. +49 (0)821 4802-0
Fax +49 (0)821 4802-210
www.keim.com / info@keimfarben.de
- **Further information obtainable from:**
Product safety department
Telefon: 49(0)821/4802-138
E-Mail: sdb.info@keimfarben.de
- **1.4 Emergency telephone number:**
GBK GmbH Global Regulatory Compliance
Emergency number: +49(0)6132/84463

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Sodium alkylbenzene sulfonate
2-propylheptanol alkoxyated
Alcohols, C12-14, ethoxylated, sulphated, sodium salt (>1<2.5 mol EO)
- **Hazard statements**
H315 Causes skin irritation.

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H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315 Get immediate medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with regional/national regulations.

Additional information:

EUH208 Contains d-limonene, Citrus Aurantium Dulcis Peel Oil. May produce an allergic reaction.

Restricted to professional users.

2.3 Other hazards**Results of PBT and vPvB assessment**• **PBT:** Not applicable• **vPvB:** Not applicable**SECTION 3: Composition/information on ingredients****3.2 Mixtures**• **Description:** Surfactant mixture**Dangerous components:**

| | | |
|---|--|-----------|
| EC number: 932-051-8 Reg.nr.: 01-2119565112-48-XXXX | Sodium alkylbenzene sulfonate ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; Aquatic Chronic 3, H412 | 5-<10% |
| CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16-XXXX | Alcohols, C12-14, ethoxylated, sulphated, sodium salt (>1<2.5 mol EO) ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; Aquatic Chronic 3, H412 | 1-<5% |
| CAS: 166736-08-9 EC number: 605-450-7 Reg.nr.: 02-2119630747-33 | 2-propylheptanol alkoxyated ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302 ATE: ATE oral: >300-2,000 mg/kg | 3-<5% |
| CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-XXXX | 2-(2-butoxyethoxy)ethanol ☠ Eye Irrit. 2, H319 | 1-<3% |
| CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-096-00-2 Reg.nr.: 01-2119529223-47-XXXX | d-limonene ☠ Flam. Liq. 3, H226; ☠ Asp. Tox. 1, H304; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Irrit. 2, H315; Skin Sens. 1B, H317 | ≥0.25-<1% |

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| | | (Contd. of page 2) |
|---|--|--------------------|
| CAS: 8028-48-6 EINECS: 232-433-8 | Citrus Aurantium Dulcis Peel Oil ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317 | ≥0.25-<1% |
| CAS: 52-51-7 EINECS: 200-143-0 Index number: 603-085-00-8 Reg.nr.: 01-2119980938-15-XXXX | 2-bromo-2-nitropropane-1,3-diol ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335 ATE: ATE oral: 500 mg/kg ATE dermal: 1,600 mg/kg | >0.01-<0.025% |

Additional information:

Labelling of ingredients according to Regulation (EU) 2026/405:

5 % - < 15 % anionic surfactants, < 5 % non-ionic surfactants, fragrances (d-limonene, citrus aurantium dulcis peel oil, linalool), preservatives (2-bromo-2-nitropropane-1,3-diol, 1,2-benzisothiazol-3(2H)-one).

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information:**

With appearance of symptoms or in cases of doubt seek medical advice .

When seeing the doctor we suggest to present this safety data sheet.

After inhalation: Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Do not use solvents or thinners.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse mouth and throat well with water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

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- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Special protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
In case of fire do not breathe smoke, fumes and vapours.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
Ensure adequate ventilation
Respect the protection rules (see section 7 and 8).
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**
Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Avoid contact with skin and eyes.
Ensure good ventilation/exhaustion at the workplace.
Do not inhale aerosols.
See item 8 (8.2) for information about suitable protective equipment and technical precautions.
Respect the protection rules.
- **Information about fire - and explosion protection:**
The product is not flammable.
No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in unopened original receptacles.
Keep in the original containers in a cool and dry place.

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- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:**
 Protect from frost.
 Protect from heat and direct sunlight.
- **Storage class:** 12
- **GISCode** GF0 Fassadenreiniger, sonstige
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

112-34-5 2-(2-butoxyethoxy)ethanol

| | |
|---------------|--|
| IOELV (EU) | Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm |
| AGW (Germany) | Long-term value: 67 mg/m ³ , 10 ppm 1.5(I);EU, DFG, Y, 11 |

5989-27-5 d-limonene

| | |
|---------------|--|
| AGW (Germany) | Long-term value: 28 mg/m ³ , 5 ppm 4(II);DFG, H, Sh, Y |
|---------------|--|

52-51-7 2-bromo-2-nitropropane-1,3-diol

| | |
|---------------|-----------------------|
| MAK (Germany) | vgl.Abschn.IIb und Xc |
|---------------|-----------------------|

· **DNELs**

Sodium alkylbenzene sulfonate

| | | |
|------------|------------------------------|----------------------------------|
| Oral | Long-term - systemic effects | 0.425 mg/kg bw/day (consumer) |
| Dermal | Long-term - systemic effects | 85 mg/kg bw/day (worker) |
| | Long-term - systemic effects | 42.5 mg/kg bw/day (consumer) |
| Inhalative | Long-term - systemic effects | 6 mg/m ³ (worker) |
| | Long-term - systemic effects | 1.5 mg/m ³ (consumer) |

68891-38-3 Alcohols, C12-14, ethoxylated, sulphated, sodium salt (>1<2.5 mol EO)

| | | |
|------------|------------------------------|---------------------------------|
| Oral | Long-term - systemic effects | 15 mg/kg bw/day (consumer) |
| Dermal | Long-term - systemic effects | 2,750 mg/kg bw/day (worker) |
| | Long-term - systemic effects | 1,650 mg/kg bw/day (consumer) |
| Inhalative | Long-term - systemic effects | 175 mg/m ³ (worker) |
| | Long-term - systemic effects | 52 mg/m ³ (consumer) |

112-34-5 2-(2-butoxyethoxy)ethanol

| | | |
|------------|------------------------------|----------------------------------|
| Oral | Long-term - systemic effects | 6.25 mg/kg bw/day (consumer) |
| Dermal | Long-term - systemic effects | 10 mg/kg bw/day (consumer) |
| | | 20 mg/kg bw/day (worker) |
| Inhalative | Acute - local effects | 7.5 mg/m ³ (consumer) |

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| | | |
|--|------------------------------|---|
| | Long-term - systemic effects | 101.2 mg/m ³ (worker) 34 mg/m ³ (consumer) |
| | Long-term - local effects | 67.5 mg/m ³ (worker) 34 mg/m ³ (consumer) 67.5 mg/m ³ (worker) |

5989-27-5 d-limonene

| | | |
|------------|------------------------------|---------------------------------|
| Inhalative | Long-term - systemic effects | 33.3 mg/m ³ (worker) |
|------------|------------------------------|---------------------------------|

8028-48-6 Citrus Aurantium Dulcis Peel Oil

| | | |
|------------|------------------------------|--|
| Oral | Long-term - systemic effects | 4.44 mg/kg bw/day (consumer) |
| Dermal | Long-term - systemic effects | 4.44 mg/kg bw/day (consumer) |
| | | 8.89 mg/kg bw/day (worker) |
| Inhalative | Long-term - systemic effects | 7.78 mg/m ³ (consumer) 31.1 mg/m ³ (worker) |

· PNECs

Sodium alkylbenzene sulfonate

| | |
|--|--|
| Aquatic compartment - freshwater | 0.268 mg/l (Freshwater) |
| Aquatic compartment - marine water | 0.0268 mg/l (Seawater) |
| Aquatic compartment - sediment in freshwater | 8.1 mg/kg sed dw (Freshwater sediment) |
| Aquatic compartment - sediment in marine water | 8.1 mg/kg sed dw (Marine sediment) |
| Terrestrial compartment - soil | 35 mg/kg dw (soil) |
| Sewage treatment plant | 5.6 mg/l (Sewage treatment plant) |

68891-38-3 Alcohols, C12-14, ethoxylated, sulphated, sodium salt (>1<2.5 mol EO)

| | |
|--|---|
| Aquatic compartment - freshwater | 0.24 mg/l (Freshwater) |
| Aquatic compartment - marine water | 0.024 mg/l (Seawater) |
| Aquatic compartment - sediment in freshwater | 0.9168 mg/kg sed dw (Freshwater sediment) |
| Aquatic compartment - sediment in marine water | 0.09168 mg/kg sed dw (Marine sediment) |
| Terrestrial compartment - soil | 7.5 mg/kg dw (soil) |
| Sewage treatment plant | 10,000 mg/l (Sewage treatment plant) |

112-34-5 2-(2-butoxyethoxy)ethanol

| | |
|--|--|
| Aquatic compartment - freshwater | 1.1 mg/l (Freshwater) |
| Aquatic compartment - marine water | 0.11 mg/l (Seawater) |
| Aquatic compartment - water, intermittent releases | 11 mg/l (Freshwater) |
| Aquatic compartment - sediment in freshwater | 4.4 mg/kg sed dw (Freshwater sediment) |
| Aquatic compartment - sediment in marine water | 0.44 mg/kg sed dw (Marine sediment) |
| Terrestrial compartment - soil | 0.32 mg/kg dw (soil) |
| Sewage treatment plant | 200 mg/l (Sewage treatment plant) |
| Oral secondary poisoning | 56 mg/kg food (food sec poisoning) |

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5989-27-5 d-limonene

| | |
|--|---|
| Aquatic compartment - freshwater | 0.0054 mg/l (Freshwater) |
| Aquatic compartment - marine water | 0.00054 mg/l (Seawater) |
| Aquatic compartment - sediment in freshwater | 1.32 mg/kg sed dw (Freshwater sediment) |
| Aquatic compartment - sediment in marine water | 0.13 mg/kg sed dw (Marine sediment) |
| Terrestrial compartment - soil | 0.262 mg/kg dw (soil) |
| Oral secondary poisoning | 3.33 mg/kg food (not specified) |

8028-48-6 Citrus Aurantium Dulcis Peel Oil

| | |
|--|--|
| Aquatic compartment - freshwater | 0.0054 mg/l (Freshwater) |
| Aquatic compartment - marine water | 0.00054 mg/l (Seawater) |
| Aquatic compartment - sediment in freshwater | 1.3 mg/kg sed dw (Freshwater sediment) |
| Aquatic compartment - sediment in marine water | 0.13 mg/kg sed dw (Marine sediment) |
| Terrestrial compartment - soil | 0.261 mg/kg dw (soil) |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Do not inhale aerosols.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing.

· **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

Combination filter A/P

· **Hand protection** Protective gloves

· **Material of gloves**

suitable material e.g.:

Chemical resistant gloves tested to EN 374 are suitable.

Nitrile impregnated cotton-gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Value for the permeation: level ≥ 6 (480 min)

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection** Tight-fitting safety goggles (standard EN 166)

· **Body protection:** Protective work clothing

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- **Environmental exposure controls**
See Section 12 and 6.2
No further relevant information available.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

| | |
|--|----------------------------|
| · Physical state | Liquid |
| · Colour: | Transparent green |
| · Odour: | Citrus-like |
| · Odour threshold: | Not determined |
| · Melting point/freezing point: | Not determined |
| · Boiling point or initial boiling point and boiling range | Not determined |
| · Flammability | Not applicable |
| · Lower and upper explosion limit | |
| · Lower: | Not applicable |
| · Upper: | Not determined |
| · Flash point: | Not applicable |
| · Auto-ignition temperature: | Not determined |
| · Decomposition temperature: | Not determined |
| · pH at 20 °C | 6.5-7.5* |
| · Viscosity: | |
| · Kinematic viscosity | Not determined |
| · Dynamic at 20 °C: | <30* mPas |
| · Solubility | |
| · water: | Miscible |
| · Partition coefficient n-octanol/water (log value) | Not applicable |
| · Vapour pressure: | Not determined |
| · Density and/or relative density | |
| · Density at 20 °C: | 1.0-1.1* g/cm ³ |
| · Relative density | Not determined |
| · Vapour density | Not applicable |

· 9.2 Other information

- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.

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- **Change in condition**
- **Softening point/range**
- **Oxidising properties:** Not applicable
- **Evaporation rate** Not applicable

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
In case of fire, the following can be released:
Carbon oxides (COx)
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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LD/LC50 values relevant for classification:

| | | |
|------------|---------|----------------------------|
| Oral | ATE mix | >2,000 mg/kg (ATE) |
| Dermal | ATE mix | >2,000 mg/kg (ATE) |
| Inhalative | ATE mix | >5 mg/l (ATE) (Dust / Fog) |

Sodium alkylbenzene sulfonate

| | | |
|--------|------|-------------------------------|
| Oral | LD50 | 5,000 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | >2,000 mg/kg (rat) (OECD 402) |

68891-38-3 Alcohols, C12-14, ethoxylated, sulphated, sodium salt (>1<2.5 mol EO)

| | | |
|--------|------|-------------------------------|
| Oral | LD50 | 2,870 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | >2,000 mg/kg (rat) (OECD 402) |

166736-08-9 2-propylheptanol alkoxyated

| | | |
|------|------|-----------------------------------|
| Oral | ATE | >300-2,000 mg/kg (ATE) |
| | LD50 | >300-2,000 mg/kg (rat) (OECD 423) |

112-34-5 2-(2-butoxyethoxy)ethanol

| | | |
|--------|------|----------------------|
| Oral | LD50 | 2,410 mg/kg (mouse) |
| Dermal | LD50 | 2,764 mg/kg (rabbit) |

5989-27-5 d-limonene

| | | |
|--------|------|-----------------------|
| Oral | LD50 | >2,000 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) |

8028-48-6 Citrus Aurantium Dulcis Peel Oil

| | | |
|--------|------|-----------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) |

52-51-7 2-bromo-2-nitropropane-1,3-diol

| | | |
|--------|------|-------------------|
| Oral | ATE | 500 mg/kg (ATE) |
| Dermal | ATE | 1,600 mg/kg (ATE) |
| | LD50 | 1,600 mg/kg (rat) |

Primary irritant effect:

- **Skin corrosion/irritation** Has de-greasing effect on skin.
- **Serious eye damage/irritation** Causes serious eye damage.
- **during inhalation:** Irritant effect possible.
- **during swallowing:** Irritant effect possible.
- **Respiratory or skin sensitisation**
Contains d-Limonen, Citrus Aurantium Dulcis Peel Oil. May produce an allergic reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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- **Other information (about experimental toxicology):**
Experimental analysis are not available.
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
 - **Subacute to chronic toxicity:**
 - **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Not applicable**
 - **11.2 Information on other hazards**
- | |
|--|
| · Endocrine disrupting properties |
| None of the ingredients is listed. |

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
May cause long-term adverse effects in the aquatic environment.
Harmful to aquatic organisms.

Sodium alkylbenzene sulfonate

EC 50/48h 6.3 mg/l (daphnia) (OECD 202)

LC 50/96 h 5.5 mg/l (fish) (OECD 203)

68891-38-3 Alcohols, C12-14, ethoxylated, sulphated, sodium salt (>1<2.5 mol EO)

NOEC 0.27 mg/l (daphnia) (21d)

EC 50/48h 7.2 mg/l (daphnia) (OECD 202)

ErC50/72h 27 mg/l (algae)

LC 50/96 h 7.1 mg/l (fish) (OECD 203)

166736-08-9 2-propylheptanol alkoxyated

EC 50/48h >1-10 mg/l (daphnia) (OECD 202)

LC 50/96 h >10-100 mg/l (fish) (OECD 203)

112-34-5 2-(2-butoxyethoxy)ethanol

EC 50/48h >100 mg/l (daphnia)

EC50/0,5h >1,995 mg/l (activated sludge)

ErC50 >100 mg/l /96H (algae)

LC 50/96 h 1,300 mg/l (fish)

5989-27-5 d-limonene

EC 50/48h 0.307 mg/l (daphnia) (OECD 202)

EC 50/3h 209 mg/l (activated sludge)

ErC50/72h 0.32 mg/l (algae) (OECD 201)

LC 50/96 h 0.7 mg/l (fish) (OECD 203)

8028-48-6 Citrus Aurantium Dulcis Peel Oil

EC 50/48h 1.1 mg/l (daphnia) (OECD 202)

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| | |
|--|--|
| ErC50/72h | 4.3 mg/l (Algae) Desmodesmus subspicatus |
| LC 50/96 h | 5.65 mg/l (Danio rerio) (OECD 203) |
| 52-51-7 2-bromo-2-nitropropane-1,3-diol | |
| NOEC | 0.0025 mg/l /3D (algae) (OECD 201) 2.61 mg/l /28D (fish) (OECD 215) 0.06 mg/l (daphnia) (OECD 211) |
| EC 50/48h | 1.04 mg/l (daphnia) (OECD 202) |
| EC 50/3h | 11 mg/l (activated sludge) (OECD 209) |
| ErC50/72h | 0.068 mg/l (algae) (OECD 201) |
| LC 50/96 h | 11 mg/l (fish) (OECD 203) |

12.2 Persistence and degradability

| | | |
|-------------|---|-------------------------|
| 68891-38-3 | Sodium alkylbenzene sulfonate | (OECD 301A) (28d) 70 % |
| | Alcohols, C12-14, ethoxylated, sulphated, sodium salt (>1<2.5 mol EO) | (28d) >60 % |
| 166736-08-9 | 2-propylheptanol alkoxyated | (OECD 301F) (28d) >60 % |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol | (28 d) 100 % |
| 8028-48-6 | Citrus Aurantium Dulcis Peel Oil | (OECD 302C) (28d) 75 % |
| 52-51-7 | 2-bromo-2-nitropropane-1,3-diol | (OECD 301B) (28d) >70 % |

· **12.3 Bioaccumulative potential** No further relevant information available.**Log POW**

| | | |
|------------|---|------|
| 68891-38-3 | Alcohols, C12-14, ethoxylated, sulphated, sodium salt (>1<2.5 mol EO) | 0,3 |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol | 1 |
| 5989-27-5 | d-limonene | 4,23 |
| 52-51-7 | 2-bromo-2-nitropropane-1,3-diol | 0,38 |

Bioconcentration factor (BCF)

| | | |
|---------|---------------------------------|------|
| 52-51-7 | 2-bromo-2-nitropropane-1,3-diol | 3,16 |
|---------|---------------------------------|------|

· **12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable
- **vPvB:** Not applicable

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects**Additional ecological information:****AOX-indication:**

According to our standard of knowledge the product does not contain any organic bounded halogen.

The product has no influence on the waste water's AOX-value.

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- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**
According to our current data base the product does not consist of any heavy metals or substances of EU guideline NO. 2006/11/EC.
- **General notes:**
At present there are no ecotoxicological assessments.
The statements on ecotoxicology have been derived from the properties of the individual components.
The product contains materials that are harmful to the environment.
Harmful to aquatic organisms.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Disposal must be made according to official regulations.
Must not be disposed with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

| | |
|-----------|---|
| 16 10 01* | aqueous liquid wastes containing hazardous substances |
|-----------|---|

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

- | | |
|--|----------------|
| · 14.1 UN number or ID number | |
| · ADR, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable |

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- | | |
|---|--|
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable |
| · Transport/Additional information: | No dangerous good in sense of these transport regulations. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**
None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
Not relevant
- **ANNEX I EXPORT SUBSTANCES DECLARABLE FOR EXPLOSIVES in quantities > 1%.**
None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.
- **Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
REGULATION (EU) 2026/405 on detergents
TRGS 200 (Germany)

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TRGS 500 (Germany)

TRGS 510 (Germany)

TRGS 900 (Germany)

- **Substances of very high concern (SVHC) according to REACH, Article 57** Not applicable
- **Product-Code/Giscode:** GF0
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.

H412 Harmful to aquatic life with long lasting effects.

- **Department issuing SDS:** KEIMFARBEN Germany, Product safety department

- **Version number of previous version:** 1.1

· **Abbreviations and acronyms:**

BOELV: Binding Occupational Exposure Limit Values

IOELV : Indicative Occupational Exposure Limit Values

OELV: Occupational Exposure Limit Value

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

AGW: Arbeitsplatzgrenzwert (Germany)

EC10: Effective concentration at 10% mortality rate.

EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

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REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
ATE: Acute toxicity estimate values
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· * **Data compared to the previous version altered.**

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