



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.08.2017


Version number 12

Revision: 10.08.2017

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

- **1.1 Product identifier**
- **Trade name: KEIM STEINREINIGER-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:**
KEIM MINERAL PAINTS LTD
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA
Tel +44 1952 231 250 / Fax +44 1952 231 251
www.keim.com / sales@keimpaints.co.uk
- **Further information obtainable from:**
David Pratt
Telefon: +44 1952 231250
E-Mail: sales@keimpaints.co.uk
- **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-alkyl benzene sulfonate
2-propylheptanol alkoxyated
Alcohols, C12-14, ethoxylated, sulfates, sodium salts
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.

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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 local/regional/national/international regulations.

Additional information:

Contains d-limonene. May produce an allergic reaction.

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	Sodium-alkyl benzene sulfonate ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; Aquatic Chronic 3, H412	5-<10%
CAS: 166736-08-9	2-propylheptanol alkoxyated ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302	1-<5%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol ☠ Eye Irrit. 2, H319	1-<5%
CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16	Alcohols, C12-14, ethoxylated, sulfates, sodium salts ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; Aquatic Chronic 3, H412	1-<5%
CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-029-00-7	d-limonene ☠ Flam. Liq. 3, H226; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317	<1%

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

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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.

· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

· 5.3 Advice for firefighters

· **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 a. 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.

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- 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.
Ensure adequate ventilation.
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 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.
- **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
- **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

WEL	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
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- **DNELs**

Sodium-alkyl benzene sulfonate

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

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

Oral	Long-term - systemic effects, consumer	1.3 mg/kg/day (consumer)
Dermal	Long-term - systemic effects, worker	20 mg/kg bw/day (worker)
	Long-term - systemic effects, consumer	10 mg/kg/day (consumer)
Inhalative	Acute - local effects, worker	14 (worker)
	Acute - local effects, consumer	7.5 mg/m ³ (consumer)
	Long-term - systemic effects, worker	10 mg/m ³ (worker)
	Long-term - systemic effects, consumer	5 mg/m ³ (consumer)
	Long-term - local effects, worker	10 mg/m ³ (worker)
	Long-term - local effects, consumer	5 (consumer)

68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Dermal	Long-term - systemic effects, worker	2,750 mg/kg bw/day (worker)
Inhalative	Long-term - systemic effects, worker	175 mg/m ³ (worker)

· PNECs

Sodium-alkyl benzene sulfonate

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

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

Aquatic compartment - freshwater	1 mg/l (freshwater)
Aquatic compartment - marine water	0.1 mg/l (marine water)
Aquatic compartment - sediment in freshwater	4 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.4 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.4 mg/kg dw (soil)
Sewage treatment plant	200 mg/l (Mikroorganismus)

68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Aquatic compartment - freshwater	0.24 mg/l (freshwater)
Aquatic compartment - marine water	0.024 mg/l (marine water)
Aquatic compartment - sediment in freshwater	5.45 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.545 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.946 mg/kg dw (soil)

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

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- **8.2 Exposure controls**
- **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
- **Protection of hands:** Protective gloves
- **Material of gloves**
suitable material e.g.:
Nitrile impregnated cotton-gloves
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.5 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 374 part III 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 protection:** Tightly sealed goggles
- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment** See Section 12 and 6.2

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	transparent green
- **Odour:** citrus-like
- **Odour threshold:** Not determined.

- **pH-value at 20°C:** 7.4*

- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

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· Flash point:	Not applicable.
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not applicable.
Upper:	Not determined.
· Oxidising properties	Not applicable.
· Vapour pressure:	Not determined.
· Density at 20°C:	1.0-1.1* g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	miscible
· Partition coefficient: n-octanol/water:	Not applicable.
· Viscosity:	
Dynamic at 20°C:	29* mPas
Kinematic:	Not determined.
· 9.2 Other information	* The values are for freshly produced material and may change with the time.

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 oxide (COx)
No hazardous decomposition products if stored and handled as prescribed.

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

Sodium-alkyl benzene sulfonate

Oral LD50 2,000-5,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

166736-08-9 2-propylheptanol alkoxyated

Oral LD50 500 mg/kg (rat)

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

Oral LD50 5,660 mg/kg (rat)

Dermal LD50 4,120 mg/kg (rabbit)

68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Oral LD50 4,100 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

5989-27-5 d-limonene

Oral LD50 4,400 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Has de-greasing effect on skin.
Causes skin irritation.
- **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. May produce an allergic reaction.
- **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.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** not applicable
- **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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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Sodium-alkyl benzene sulfonate

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

ErC50/72h >10-100 mg/l (algae) (OECD 201)

LC 50/96 h >1-10 mg/l (fish) (OECD 203)

166736-08-9 2-propylheptanol alkoxyated

EC 50/48h 1 mg/l (daphnia)

ErC50/72h 10 mg/l (algae)

LC 50/96 h 10 mg/l (fish)

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

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

ErC50/72h >100 mg/l (algae)

LC 50/96 h >100 mg/l (fish)

68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

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

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

ErC50/72h 96 mg/l (algae) (OECD 201)

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

5989-27-5 d-limonene

EC 50/48h 0.42 mg/l (daphnia)

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

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential

5989-27-5 d-limonene

LogPow 4.23 (n-Octanol/ H₂O)

12.4 Mobility in soil No further relevant information available.

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.

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-directives 76/464/EWG.

General notes:

At present there are no ecotoxicological assessments.

The product contains materials that are harmful to the environment.

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- Harmful to aquatic organisms
- Do not allow product to reach ground water, water course or sewage system.
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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**

07 06 99	wastes not otherwise specified
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- **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
· 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. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | No dangerous good in sense of these transport regulations. |

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· **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.
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
 - TRGS 200 (Germany)
 - TRGS 500 (Germany)
 - TRGS 510 (Germany)
 - TRGS 900 (Germany)
- **Substances of very high concern (SVHC) according to REACH, Article 57** not applicable
- **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.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H400 Very toxic to aquatic life.
 - H410 Very 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
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport 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)

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

VOC: Volatile Organic Compounds (USA, EU)

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

EC10: Effective concentration at 10% mortality rate.

EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

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

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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * **Data compared to the previous version altered.**