

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

Printing date 16.09.2019

Version Nr. 11

Revision: 16.09.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking- **Creation date / First edition:** 15.02.2012- **1.1 Product identifier**- **Trade name** Two in One- **1.2 Relevant identified uses of the substance or mixture and uses advised against**- **Application of the substance / the preparation** 2-component cleaning agents for industrial use.

Only for commercial application in combi steamers with WaveClean®.

Please observe the notes in the operating instructions.

- **1.3 Details of the supplier of the safety data sheet**- **Manufacturer/Supplier:**

MKN Maschinenfabrik Kurt Neubauer GmbH & Co.

Halberstädter Str. 2a

38300 Wolfenbüttel

Germany

Tel.: +49 (0) 5331 89 - 0

Fax: + 49 (0) 5331 89 280

www.mkn.eu

- **Informing department:**

Department of Occupational:

Tel.: +49 (0) 5331 89 - 0

email qualified Person MSDS: sdb@csb-online.de

- **1.4 Emergency telephone number:** (001) 352 323 3500**SECTION 2: Hazards identification**- **2.1 Classification of the substance or mixture**- **Classification according to Regulation (EC) No 1272/2008**

-



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H 318 Causes serious eye damage.

- **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 hydroxide

- **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P280 Wear protective gloves and eye protection.

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P310 Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Substances

- **Identification number(s)** 7.127

- 3.2 Mixtures

- **Description:** 2 phases detergent (cartridge) with an alkaline and an acidic component.

- Dangerous components:

| | | |
|-------------------------------------|--|---------|
| CAS: 1310-73-2 EINECS: 215-185-5 | sodium hydroxide ☞ Met. Corr.1, H290; Skin Corr. 1A, H314 | 50-100% |
| CAS: 77-92-9 EINECS: 201-069-1 | citric acid ⚠ Eye Irrit. 2, H319 | 25-50% |
| CAS: 497-19-8 EINECS: 207-838-8 | sodium carbonate ⚠ Eye Irrit. 2, H319 | 2.5-10% |
| Polymer CAS: 146340-16-1 | Fatty alcohol ethoxylate ⚠ ⚠ Skin Irrit. 2, H 315; Aquatic Acute 1, H 400, Aquatic Chronic 3, H 412 | < 1,0 % |

EG Nr. 648/2004: nonionic surfactants: < 5%

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

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- **General information** Remove any soiled clothing immediately.

- After inhaling

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- After skin contact

Wash immediately with plenty of water and continue to rinse thoroughly. (Any remains of the caustic soda will only be washed out slowly).

A check-up at the doctor's is recommended.

- **After eye contact** Rinse opened eye for several minutes under running water.

- After swallowing

DO NOT induce vomiting! Danger of perforation.

Administer medicinal carbon

Call a doctor immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Danger** Danger of gastric perforation.

- 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** Use extinguishing measures that are suitable for the surroundings.

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

- **5.3 Advice for firefighters** No special measures required.

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- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing. Keep unprotected people away.

Product forms slippery surface when combined with water.

- **6.2 Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.

- **6.3 Methods and material for containment and cleaning up:**

Please use the dust-binding materials

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Notes on storage: At room temperature, standing on its lid.

Ensure adequate dust removal and prevent formation of dust.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and containers:**

Store the product in a cool, dry place.

Protect the product from moisture - keep dry and cool.

Laws and regulations regarding water hazard class apply.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**

1310-73-2 sodium hydroxide

WEL Short-term value: 2 mg/m³

DNEL values inhalativ, long-term, local effects: 1 mg / cbm (workers)

1 mg / cbm (general population)

- **8.2 Exposure controls**

- **Personal protective equipment**

Not required for the assembled product.

Data refer to the bulk.

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and fodder.

Remove any soiled and impregnated clothing immediately.

Wash hands during breaks and at the end of the work.

- **Breathing equipment:** Not required.

- **Protection of hands:** Protective gloves.

- **Material of gloves**

Natural rubber, NR

Recommended thickness of the material: ≥ 0.5 mm

- **Penetration time of glove material**

The exact penetration time which should be observed can be given by the glove manufacturer.

The exact penetration time which should be observed can be given by the glove manufacturer.

- **Eye protection:** Tightly sealed protective goggles.

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- **Body protection:** Protective work clothing.
- **Risk management measures** Due type of packaging exposure is not probably

SECTION 9: Physical and chemical properties

| | |
|--|--|
| - 9.1 Information on basic physical and chemical properties | |
| - General Information | |
| - Appearance: | |
| Form: | Granulate |
| Colour: | White |
| - Smell: | Odorless |
| - Odour threshold: | Not determined. |
| - Melting point/Melting range: | Not determined |
| - Boiling point/Boiling range: | Not determined |
| - Flash point: | Not applicable |
| - Inflammability (solid, gaseous) | Not determined. |
| - Ignition temperature: | |
| Decomposition temperature: | Not determined. |
| - Self-inflammability: | Product is not self-igniting. |
| - Danger of explosion: | Product is not explosive. |
| - Critical values for explosion: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| - Steam pressure: | Not applicable. |
| - Density | Not determined |
| - Relative density | Not determined. |
| - Vapour density | Not applicable. |
| - Evaporation rate | Not applicable. |
| - Solubility in / Miscibility with | |
| Water: | Fully soluble. |
| - Segregation coefficient (n-octanole/water): | Not determined. |
| - Viscosity: | |
| dynamic: | Not applicable. |
| kinematic: | Not applicable. |
| - 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
No dangerous decomposition products known if used according to the specifications.

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SECTION 11: Toxicological information**- 11.1 Information on toxicological effects****- Acute toxicity:****- LD/LC50 values that are relevant for classification:****1310-73-2 sodium hydroxide**

Oral LD50 2000 mg/kg (rat)

- Primary irritant effect: Causes severe burns on skin, eyes, respiratory organs and mucous membranes.**- Sensitization:** No sensitizing effect known.**- Additional toxicological information:** Corrosive

Swallowing will have a strong caustic effect on mouth and throat and could lead to danger of perforation of oesophagus and stomach.

SECTION 12: Ecological information**- 12.1 Toxicity**

| | |
|-----------------------------------|---|
| - Aquatic toxicity: | |
| 1310-73-2 Sodium hydroxide | |
| LC50/48 h | 133 - 189 mg/l (leuciscus idus) |
| LC50/96 h | 99 mg/l (bluegill (lepomis macrochirus)) 45.4 mg/l (rainbow trout (oncorhynchus mykiss)) |
| 77-92-9 Citric acid | |
| EC0 | > 10000 mg/l (bacteria) |
| EC50/72 h | ~120 mg/l (water flea (daphnia magna)) |
| LC50 | 440 - 760 mg/l (leuciscus idus) |
| 497-19-8 Sodium carbonate | |
| EC50/48 h | 256 mg/l (water flea (daphnia magna)) |
| LC50/96 h | 740 mg/l (gambusia affinis) 300 mg/l (bluegill (lepomis macrochirus)) |
| fatty alcohol ethoxylates | |
| EC50/48 h | 0.1 - 1 mg/l (aquatic invertebrates) |
| LC50/96 h | 0.1 - 1 mg/l (leuciscus idus) |
| NOEC/21 d | 0.25 mg/l (aquatic invertebrates) |

- 12.2 Persistence and degradability No further relevant information available.**- 12.3 Bioaccumulative potential** No further relevant information available.**- 12.4 Mobility in soil** No further relevant information available.**- Additional ecological information:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- 12.5 Results of PBT and vPvB assessment: not applicable**- 12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****- 13.1 Waste treatment methods****- Recommendation**

Must not be disposed together with household waste. Do not allow product to reach sewage system.

According to the local official regulations.

- Waste disposal key number: 070608

The waste disposal key numbers are organized according to branch and process classification in the European waste catalogue.

- European waste catalogue

The waste disposal key numbers are organized according to branch and process classification in the European waste catalogue.

- Uncleaned packagings:**- Recommendation:** Disposal must be made according to official regulations.**- Recommended cleaning agent:**

Collect small amounts of the product mechanically. Rinse away any residue with water.

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SECTION 14: Transport information

| | |
|---|--|
| - 14.1 UN-Number - ADR, IMDG, IATA | UN1823 |
| - 14.2 UN proper shipping name - ADR - IMDG, IATA | 1823 SODIUM HYDROXIDE, SOLID, mixture SODIUM HYDROXIDE, SOLID |
| - 14.3 Transport hazard class(es) - ADR - Class - Label | 8 (C6) Corrosive substances. 8 |
| - 14.4 Packing group - ADR | II |
| - 14.5 Environmental hazards: - Marine pollutant: | No |
| - 14.6 Special precautions for user - Kemler Number: - Segregation groups | Warning: Corrosive substances. 80 Alkalis |
| - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| - Transport/Additional information: | |
| · Limited quantities (LQ) | LQ3, 1 kg |
| · Excepted quantities (EQ) | Code: E2 |
| - ADR - Tunnel restriction code | E |
| - UN "Model Regulation": | UN1823, SODIUM HYDROXIDE, SOLID, mixture, 8, II |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases

This H-phrases are valid to some extent only for ingredients and do not indicate the classification of the preparation / material.

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects

- Department issuing data specification sheet: Quality protection department.
- Contact: see Point I.