

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

Printing date 18.09.2013

Version number 5

Revision: 18.09.2013

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

MKN Maschinenfabrik Kurt Neubauer GmbH & Co.

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38300 Wolfenbüttel

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- **Informing department:**

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- **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.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**- **Hazard description:** C Corrosive- **Information concerning particular hazards for human and environment:** R 35 Causes severe burns.- **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- **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.

P234 Keep only in original container.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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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  C R35 	50-100%
CAS: 77-92-9 EINECS: 201-069-1	citric acid  Xi R36 	25-50%
CAS: 497-19-8 EINECS: 207-838-8	sodium carbonate  Xi R36 	2.5-10%
Polymer	Alcohols, C12-18, ethoxylated propoxylated, Methylether  Xi R36;  N R50 	< 2.5%

- **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

Keep containers tightly sealed.

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/m ³
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- 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.

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- 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:** No further relevant information available.**- 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:****- General notes:**

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**- 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**

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.

SECTION 14: Transport information**- 14.1 UN-Number****- ADR, IMDG, IATA**

UN1823

- 14.2 UN proper shipping name**- ADR**

1823 SODIUM HYDROXIDE, SOLID, mixture

- IMDG, IATA

SODIUM HYDROXIDE, SOLID

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- 14.3 Transport hazard class(es)	
- ADR	
- Class	8 (C6) Corrosive substances.
- Label	8
- 14.4 Packing group	
- ADR	II
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	
- Kemler Number:	Warning: Corrosive substances. 80
- Segregation groups	Alkalis
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
- Transport/Additional information:	
- 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 R-phrased is valid to some extent only for ingredients and does 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.

R35 Causes severe burns.

R36 Irritating to eyes.

R50 Very toxic to aquatic organisms.

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