



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date: 24.10.2017

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

1.1 Product identifier

- Catalogue No.: 515.1923
- Product name: Sodium hydrogen carbonate LQ

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

Identified uses Reagent for analysis
For additional information on uses please refer to www.kstools.com.

1.3 Details of the supplier of the safety data sheet

Company
KS TOOLS Werkzeuge-Maschinen GmbH
Seligenstädter Grund 10 - 12
63150 Heusenstamm
Tel.: 06104 4974-0
Fax: 06104 4974-11
Mail: info@kstools.de

1.4 Emergency telephone number

Please contact the regional company representation in your country.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to European Union legislation.

2.2 Label elements

- Labelling (REGULATION (EC) No 1272/2008)
- Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

Formula	NaHCO ₃	CHNaO ₃ (Hill)
EC-No.	205-633-8	
Molar mass	84,01 g/mol	
Remarks	No disclosure requirement according to Regulation (EC) No. 1907/2006	

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

irritant effects, Nausea, Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

- Not combustible.
- Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

- In the event of fire, wear self-contained breathing apparatus.

Further information

- Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
- Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

- Observe label precautions.

Hygiene measures

- Change contaminated clothing. Wash hands after working with substance.
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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

- Tightly closed. Dry.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

- Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.
- See section 7.1.

Individual protection measures

- Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

- Safety glasses
- Hand protection

full contact:

Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: 480 min

splash contact:

Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Respiratory protection

- required when dusts are generated.
- Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

- Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Form: powder

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- Colour: white
 - Odour: odourless
 - Odour Threshold: Not applicable
 - pH: ca. 8,1-8,4; at 50 g/l; 20 °C
 - Melting point: No information available.
 - Boiling point/boiling range: Not applicable
 - Flash point: Not applicable
 - Evaporation rate: No information available.
 - Flammability (solid, gas): No information available.
 - Lower explosion limit: Not applicable
 - Upper explosion limit: Not applicable
 - Vapour pressure: No information available.
 - Relative vapour density: No information available.
 - Density: 2,159 g/cm³ at 20 °C
 - Relative density: No information available.
 - Water solubility: 145 g/l at 20 °C
 - Partition coefficient: octanol/water: Not applicable
 - Auto-ignition temperature: No information available.
 - Decomposition temperature: > 50 °C
 - Viscosity, dynamic: Not applicable
 - Explosive properties: Not classified as explosive.
 - Oxidizing properties: none
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9.2 Other data

- Ignition temperature: Not applicable
 - Bulk density: ca.700 -1.200 kg/m³
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SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

- Violent reactions possible with: Alkali metals, acids
- Generates dangerous gases or fumes in contact with: ammonium compounds

10.4 Conditions to avoid

Strong heating (decomposition).

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

- Acute oral toxicity: LD50 Rat: 4.000 mg/kg (RTECS)
- Symptoms: After uptake of large quantities:, Nausea, Vomiting
- Acute inhalation toxicity
- Symptoms: slight mucosal irritations
- Acute dermal toxicity
- This information is not available.
- Skin irritation
- Rabbit
- Result: slight irritation (External MSDS)
- Eye irritation
- Rabbit
- Result: slight irritation (External MSDS)
- Sensitisation
- This information is not available.
- Germ cell mutagenicity
- Genotoxicity in vitro
- Ames test
- Result: negative (IUCLID)
- Carcinogenicity
- This information is not available.
- Reproductive toxicity
- This information is not available.
- Teratogenicity
- Did not show teratogenic effects in animal experiments. (IUCLID)
- Specific target organ toxicity - single exposure
- This information is not available.
- Specific target organ toxicity - repeated exposure
- This information is not available.
- Aspiration hazard
- This information is not available.

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish:

- LC50 Gambusia affinis (Mosquito fish): 7.700 mg/l; 96 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

- EC50 Daphnia magna (Water flea): 4.100 mg/l; 48 h (IUCLID)

12.2 Persistence and degradabil

Biodegradability

- The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

- Not applicable

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods

- See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)

14.1 - 14.6

- Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN)

- Not relevant

Air transport (IATA)

14.1 - 14.6

- Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG)

14.1 - 14.6

- Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

- Major Accident Hazard: SEVESO III
- Legislation: Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

- not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

- not regulated

Substances of very high concern (SVHC)

- This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

National legislation

- Storage class: 10 - 13

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

ABSCHNITT 16: Other information

The information is based on the current state of our knowledge, however, it does not represent a guarantee of product characteristics and does not establish a contractual legal relationship.

Division issuing the data sheet:

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR = PEC/PNEC)

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 Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

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

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NOAEL: No Observed Adverse Effect Level

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

SVHC: Substance of Very High Concern