Safety data sheet

according to Regulation (EC) No. 1907/2006

Schliessmann Schwäbisch Hall

Date: 01.02.2016

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

1.1 Product identifier

Product name:	Rebelein-Reagenz „ZUCKER 2“ / Rebelein „SUGAR 2“
Article:	0027 f.
Chemical name:	-
Chemical name:	Sodium hydroxide solution
Registration number:	See section 3 for substances contained in the mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against: Reagent for the analysis of beverages

1.3 Details of the supplier of the safety data sheet

Company: C. Schliessmann Kellerei-Chemie GmbH & Co KG
Auwiesenstr. 5, D-74523 Schwäbisch Hall
Tel. 0049-(0)791 / 97191 -0, Fax -25
E-Mail: service@c-schliessmann.de

1.4 Emergency telephone number: Poison centre Freiburg: Tel. 0049-(0)761 / 19240

2. Hazards identification

2.1 Classification of the substance or mixture

Met. Corr. 1 H290 May be corrosive to metals.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.

2.2 Label elements according to Regulation (EC) No 1272/2008

Hazard pictograms:

Signal word: **DANGER**

Hazardous compenent: sodium hydroxide

Hazard statements:	H290	May be corrosive to metals.
	H314	Causes severe skin burns and eye damage.
Precautionary statements:	P280	Wear protective gloves / protective clothing / eye protection / face protection.
	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.
	P310	Immediately call a POISON CENTER or a doctor.

2.3 Other hazards: No informations available

3. Composition/information on ingredients

3.1 Substance: The product is a mixture.

3.2 Mixtures Sodium hydroxide and potassium sodium-tartrate (30 %) solution in water

Dangerous component:	sodium hydroxide
Index Number:	215-185-5
CAS:	1310-73-2
Reg.nr.:	01-2119457892-27-XXXX
Classification:	Met. Corr. 1 H290 May be corrosive to metals. Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Content:	approx. 10 %

4. First aid measures

4.1 Description of first aid measures

After inhalation:	Supply fresh air. Call a doctor.
After skin contact:	Wash with water, swab with polyethylene glycol 400. Remove dirty clothing immediately. Medical treatment!
After eye contact:	Rinse opened eye for 10 minutes under running water. Immediately consult a doctor.
After swallowing:	Rinse out mouth and drink 2 glass of water, do not induce vomiting (Risk of perforation!). Call for a doctor immediately. No attempt to neutralize.

4.2 Most important symptoms and effects, both acute and delayed

After inhalation:	Mucosal irritations, cough, breathlessness
After skin contact:	Irritant and caustic effects, necrosis
After eye contact:	Burns, necrosis, Risk of blindness!
After swallowing:	Burns. Risk of perforation in the esophagus and stomach.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. Firefighting measures

5.0 Combustibility	The product is not combustible.
5.1 Suitable extinguishing agents	Foam, powder, CO_2 or water spray
5.2 Special hazards arising from the substance or mixture	Risk of explosion by hydrogen gas formation on contact with light metals.
5.3 Advice for firefighters	Extinguishing activities according to the environment; wear self-contained respiratory protective device, avoid skin contact.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid substance contact. Don’t breathe aerosols and fumes.

6.2 Environmental precautions	Dilute with plenty of water. Do not allow to enter sewers/ground water or penetrate the soil.
6.3 Methods and material for containment and cleaning up	Absorb with liquid-absorbent and arrange removal by disposal company. Clean up with water.
6.4 Reference to other sections	See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling	See notes in Section 2 and 8.
7.2 Conditions for safe storage, including any incompatibilities	Keep well closed at 15-25°C, not in metal tins or containers.; separated from acids and foods.
7.3 Specific end use(s)	See section 1.2

8. Exposure controls/personal protection

8.1 Control parameters

WEL (Great Britain):	Short-term value sodium hydroxide: 2 mg/m³

8.2 Exposure controls

Personal protective equipment:

Respiratory protection:	When vapours/aerosols are generated, Filter P2
Eye protection:	Tightly sealed glasses
Skin protection:	Protective gloves
General hygiene considerations:	Change contaminated clothing. Preventive skin protection. Wash hands after working.

9. Physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
pH-value:	13,8 (20°C)
Melting temperature:	Not available
Boiling temperature:	Not available
Ignition temperature:	Not applicable
Flash point:	Not applicable
Danger of explosion:	Not applicable
Vapour pressure:	Not available
Density:	1,19 g/cm³ (20°C)
Solubility in water:	Unlimited

10. Stability and reactivity

10.1 Reactivity	See section 10.3
10.2 Chemical stability	No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions	Risk of explosion, formation of hydrogen gas when in contact with metals, violent reaction with acids
10.4 Conditions to avoid	No information available.
10.5 Incompatible materials	Various metals
10.6 Hazardous decomposition products	In case of fire: see section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (sodium hydroxide):

LD50 (oral, rat):	2000 mg/kg
Subacute/chronic toxicity:	No sensitizing effects known.
CMR effects:	
Mutagenicity:	Ames-test and tests with animals didn’t show mutagenic or teratogenic effects.
Carcinogenicity:	No information available.
Reproductive toxicity:	No information available.
11.2 Further information	See section 4 for symptoms after direct contact with the product; Corrosive to the skin and mucous membranes of the eyes and respiratory tract. Can cause blindness. Causes deep skin necrosis during extended skin contact. Perforation of the esophagus and stomach. Systemic effects: collapse, death.

12. Ecological information

All Informations refer to:	sodium hydroxide
12.1 Aquatic toxicity	LC50 (96h) 125 mg/l (mosquito fish); damaging effect due to pH shift
12.2 Persistence and degradability	Not applicable.
12.3 Bioaccumulative potential	No further relevant information available.
12.4 Mobility in soil	No further relevant information available.
12.5 Results of PBT and vPvB assessment	Not applicable.

12.6 Other adverse effects No further relevant information available.

13. Disposal considerations

Product must be disposed of as hazardous waste. Disposal according to official regulations. Little quantities may be rinsed away with plenty of water and diluted acid after careful neutralization.

14. Transport information

14.1 UN-Number

ADR, IMDG, IATA: UN 1824

14.2 UN proper shipping name

ADR: 1824 SODIUM HYDROXIDE SOLUTION
IMDG, IATA: SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class(es)

ADR: Class 8 / Corrosive substances, Label 8
classification code C5
Transport category 2 / LQ22 / 1 L
IMDG: Class 8 / Corrosive substances, Label 8
EmS: F-A S-B
IATA: Class 8 / Corrosive substances, Label 8

14.4 Packing group

ADR, IMDG, IATA: II

14.5 Environmental hazards Marine pollutant: No

15. Regulatory information

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

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Waterhazard class: 1 (slightly hazardous for water)

16. Other information

The informations provided on this SDS are correct to the best of our knowledge and information. These informations are designed as a guide for safe handling. They are no guarantee for specific chracteristics of the product.