

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006. Article 3

### Sodiumbicarbonate LQ

Date of issue 26.03.2016

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

##### 1.1 Product identifier

Trade name	: penergetic t
Product code	: 1000S – 1800S
Manufactured by	: Penergetic Int. AG Romiszelgstrasse 1 CH- 8590 Romanshorn (Switzerland)
CAS-number	: 144-55-8
EC-number	: 205-633-8
REACH-number	: 01-2119457606-32

##### Product description

Substance name	: Sodiumbicarbonate LQ
Scope of application	: Single feedstuff
Expiry date	: 2 years from date of manufacture

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

Relevant identified uses of the

substance and mixture : No further relevant information available.

Application of the substance/the mixture : Basic chemical (without special defined application)

##### 1.3 Details of the supplier of the safety data sheet

Company	: Lobeck Chemie AG Industriestrasse 9 9015 St.Gallen
Telephone	: +41 71 313 50 50
Fax	: +41 71 313 50 55
Mail	: info.chemie@lobeck.ch
Notfallnummer	: 145
TOX Info Suisse	: +41 44 251 51 51 or www.toxi.ch

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#### 2. Composition/Information on ingredients

##### 2.1 Substances

	:	Sodium hydrogencarbonate NaHCO <sub>3</sub>
CAS No. Designation	:	144-55-8 sodium hydrogencarbonate
Identification no(s)	:	
EC number	:	205-633-8

#### 3. Hazards identification

##### 3.1 Classification of the substance or mixture

according to regulation Regulation (EC) No. 1272/2008,

: The substance is not classified according to the CLP regulation..

##### 3.2 Label elements

Labelling according according to regulation Regulation (EC) No. 1272/2008

Hazard pictograms	:	Void
Signal word	:	Void
Hazard statements	:	Void

##### 3.3 Other hazards

###### Results of PBT and vPvB assessment

PBT	:	Not applicable
vPvB	:	Not applicable

#### 4. First aid measures

##### 4.1 Description of first aid measures

General advice	:	No special measures inquired
After inhalation	:	In case of inhalation of dust provide with fresh air. Wash face with water. Seek medical advice if symptoms persist.
After contact with skin	:	In general the product does not cause skin irritation. Wash with soap and water.
After contact with eyes	:	Rinse opened eye for 15 minutes under running water.
After swallowing	:	Rinse out mouth and then drink plenty of water. Do not induce vomiting. In case of persistent symptoms consult doctor.

##### 4.2 Most important symptoms and effects, both acute and delayed

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**symptoms** : No further relevant information available

**4.3 Indication of any immediate medical attention and special treatment needed treatment**

: No further relevant information available

#### 5. Firefighting measures

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##### 5.1 Extinguishing media

Suitable extinguishing agents : Product is non-flammable. Use fire fighting measure that suit the surroundings.

##### 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>)

##### 5.3 Advice for firefighters

Protective equipment : Adjust protective clothing to surrounding fire."

Additional information

: Endangered containers in the surrounding area should be cooled with a water-hose.

#### 6. Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

: wear protective equipment. Keep off unprotected persons."

##### 6.2 Environmental precautions

: Do not allow to enter drainage system, surface or ground water.

##### 6.3 Methods and material for containment and cleaning up

: Pick up mechanically and rinse the remainder with water. Avoid dust development. Place in suitable container and send to be recycled or disposed (taking item 13 into account).

##### 6.4 Reference to other sections

: No dangerous materials are released

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#### 7. Handling and storage

##### 7.1 Precautions for safe handling

- : Open and handle container with care. When preparing solutions, always stir product into water."
- Information about protection against explosions and fires
- : Keep ignition sources away – Do not smoke.

##### 7.2 Conditions for safe storage, including any incompatibilities

- Storage : Store in cool, dry conditions in well sealed containers
- Requirements to be met by storerooms and containers : Observe official regulations on storage and handling of water hazardous substances. Keep container tightly closed and dry
- Suitable materials for containers and packaging : paper, polyethylene, plastic-coated materials, steel.
- Information about storage in one common storage facility : Do not store together with acids
- Further information about storage conditions : Protect from humidity and keep away from water
- Storage class : 13 (TRGS 510)

##### 7.3 Specific end use(s)

- : No further relevant information available."

#### 8. Exposure controls/personal protection

##### Additional information about design of technical systems

- : In case of dust development, suction is needed

##### 8.1 Control parameters

- Components with critical values that require monitoring at the workplace : Not required.
- Additional information : The lists that were valid during the compilation were used as basis.

##### 8.2 Exposure controls

- Personal protective equipment
- General protective and hygienic measures : The usual precautionary measures should be adhered to in handling the chemicals. Avoid contact with the eyes. Do not inhale dust. Prevent formation of dust.
- Breathing equipment : Breathing protection to be used where a build-up of dust occurs.

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Recommended filter device for short term use	:	Filter P2
Protection of hands	:	Protective gloves and protective skin cream
Material of gloves	:	Butyl rubber (BR) Nitrile rubber, NBR Chloroprene rubber, CR 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.
Penetration time of glove material	:	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	:	Wear suitable safety goggles in case of formation of dust.
Body protection	:	Standard protective working clothes

#### 9. Physical and chemical properties

##### Information on basic physical and chemical properties

Physical state	:	solid
Form	:	powder
Colour	:	white
Odour threshold	:	Not determined
Odour	:	typical mineralogical, earthy
pH-value (50 g/l) at 20°C	:	8.1 – 8.4
Melting point/range	:	Not determined A.1
Boiling point/boiling range	:	Not determined
Flash Point	:	Point is non-flammable or potentially explosive
Inflammability (solid, gaseous)	:	Product is not inflammable
Decomposition temperature	:	> 50 °C
Self inflammability	:	Not determined
Danger of explosion	:	Product is not potentially explosive
Critical values for explosion: Lower	:	Not determined

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Upper	: Not determined
Vapour pressure	: Not applicable
Density at 20 °C	: 2.159 g/cm <sup>3</sup>
Settled apparent density at 20°C	: 700 – 1200 kg/m <sup>3</sup>
Relative density	: Not determined
Vapour density	: Not applicable
Evaporation rate	: Not applicable
Solubility in / Miscibility with Water at 20 °C	: 145 g/l
Partition coefficient (n-octanol/water)	: Not determined
Viscosity dynamic	: Not applicable
kinematic	: Not applicable
Other information	: Molecular weight: 84,01 g/mol

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#### 10. Stability and reactivity

**10.1 Reactivity** : No further relevant information available

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided**

: To avoid thermal decomposition do not overheat. Formation of carbon dioxide and sodium carbonate by thermal decomposition.

**10.3 Possibility of hazardous reactions** : Reacts with acids forming carbon dioxide

**10.4 Conditions to avoid** : No further information available

**10.5 Incompatible materials** : Acids

**10.6 Hazardous decomposition products** : carbon dioxide, sodium carbonate

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#### 11. Toxicological information

##### 11.1 Information on toxicological effects

**Acute toxicity** : Based on available data, the classification criteria are not met.

**LD/LC50 values that are relevant for classification** : Oral LD50 >4000 mg/kg (rat)

##### Primary irritant effect

**Skin corrosion/irritation** : Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** : Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** : Based on available data, the classification criteria are not met.

**Subacute to chronic toxicity** : In vitro, no mutagenic effect. Oral route (gavage), 10 days, various species, 330 mg/kg, no teratogenic effect.

##### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

**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.

#### 12. Ecological information

##### 12.1 Toxicity

Aquatic toxicity	
EC 50 / 48 h	4100 mg/l (Daphnia magna)
LC 50 / 96 h	7700 mg/l (Oncorhynchus mykiss)
	7100 mg/l (Lepomis macrochirus)
NOEC / 96 h	2300 mg/l (Oncorhynchus mykiss)
	5200 mg/l (Lepomis macrochirus)
	3100 mg/l (Daphnia magna)

**12.2 Persistence and degradability** : Based on available data, the classification criteria are not met.

**Other information** : Does not cause any biological oxygen consumption

**12.3 Bioaccumulation potential** : No further relevant information available

**12.4 Mobility in soil** : No further relevant information available

##### Additional ecological information

**General notes** : Do not allow to enter drainage system, surface or ground water

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Water hazard class 1 (Assessment by list): Slightly 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

### 13. Disposal considerations

#### 13.1 Waste treatment methods

**Recommendation** : Can be burnt with households garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations. A used product should be recycled or used in other context, otherwise be handed over to an appropriate disposal site.

**Waste disposal key number** : Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the supplication can be obtained from the European waste catalogue.

**Uncleaned packagings Recommendation** : Disposal must be made according to official regulations  
: Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.  
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

### 14. Transport information

14.1 UN- Number - ADR, IMDG, IATA	Void
14.2 UN proper shipping name - ADR, IMDG, IATA	Void
14.3 Transport Hazardclass(es) - ADR, IMDG, IATA - Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
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



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Transport/Additional information	Not dangerous according to the above specifications
UN "Model Regulation"	Void

#### 15. Regulatory information

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

<b>Labelling according to Regulation (EC) No 1272/2008</b>	: Void
<b>Hazard pictograms</b>	: Void
<b>Signal word</b>	: Void
<b>15.2 Chemical safety assessment</b>	: A Chemical Safety Assessment has not been carried out

#### 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.

##### 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  
 LD 50: Lethal dose, 50 percent  
 vPvB: very Persistent and very Bioaccumulative