

15.1 Labelling According to EC Directive

15.1.1 Labelling According to EC Directive/Ordinance on Hazardous Substances / Chemical Act labelling is not required - the general precautions when dealing with chemicals have to be observed.

15.1.2 Regulatory Components REACH This mixture contains no ingredient which is subject to an authorization according to Regulation (EC) No. 1907/2006 (REACH).

15.1.6 special Labelling No

15.2 National Provisions

15.2.1 Hints on Job Activity Restrictions n/f

15.2.2 Statutory Order on Hazardous Incidents n/f

15.2.4 Technical Guidance Air -

15.2.5 Water hazard class (Germany) WGK 1: (slightly hazardous for water)

15.2.7 Other Provisions
Poison-Class CH F (free)

International Inventories

15.3

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Sodium chloride	231-598-3	-		X	X	-	X	X	X	X	X
Water	231-791-2	-		X	X	-	X	-	X	X	X

Legend

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- CHINA** - China Inventory of Existing Chemical Substances
- AICS** - Inventory of Chemical Substances
- KECL** - Existing and Evaluated Chemical Substances

16. Other Information n/f = not found

16.1 Modified change in wording MSDS to SDS

Specifications made in this Safety Data Sheet are only valid for the mentioned product. They do not apply when the product is used with other materials or in other manufacturing processes. These specifications are based on our today's knowledge and experience and serve to describe the product in respect to safety precautions. They do not serve as warranty of a quality.

SDS

REF 30.9.0020
 REF 30.9.0100
 REF 30.9.0290
 REF 30.9.0500
 REF 30.9.0850
 REF 30.9.2000
 REF 60.9.0100

Safety Data Sheet
*acc. to ISO/DIS 11014 and
 (EC) No. 1907/2006 (REACH)*




1. Identification of the Substance / Preparation and of the Company / Undertaking

- 1.1 Product Details**
- | | |
|---|---------------|
| Gonotec Calibration Standard 100 mOsmol/kg | REF 30.9.0100 |
| Gonotec Calibration Standard 300 mOsmol/kg | REF 30.9.0020 |
| Gonotec Calibration Standard 500 mOsmol/kg | REF 30.9.0500 |
| Gonotec Calibration Standard 850 mOsmol/kg | REF 30.9.0850 |
| Gonotec Calibration Standard 2000 mOsmol/kg | REF 30.9.2000 |
| Reference Solution OSMOREF® 290 mOsmol/kg | REF 30.9.0290 |
| Gonotec Standard Solution 100 mmol/l | REF 60.9.0100 |
- 1.2 Use of the preparation** **Gonotec standards are aqueous solutions used to calibrate and/or check the performance of Osmometer and Chloride Meter by qualified personnel.**
- 1.3 Identification of the Manufacturer / Supplier**
- Gonotec**
Gesellschaft für Meß- und Regeltechnik mbH
GSG-Hof Reuchlinstr. 10-11
D-10553 Berlin
Telefon: +49-(0)30-7809588-0
Telefax: +49-(0)30-7809588-88
Mr. Höpcke @ p.hoepcke@gonotec.com
16.07.2015 Version 1.0
- 1.3.1 Information Provider by / eMail
 1.3.2 Issued / Revised on:

2. Hazards Identification

- 2.1 Hazards description** Contact with the eyes can cause irritation.
- 2.1.1 Classification (1272/2008/EC) GHS/CLP** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. (GHS/CLP)
- Classification (67/548/EEC, 1999/45/EC)** Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
- 2.2 Label elements** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. (GHS/CLP)
 Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
 R-phrases/S-phrases: not applicable.
- OSHA hazard overview (Criteria according to 29CFR1910.1200)** Not applicable
- NFPA ratings (scale 0 - 4)** Health = 0
 Fire = 0
 Reactivity = 0
- HMIS-ratings (scale 0 - 4)** Health = 0
 Fire = 0
 Reactivity = 0
- 2.3 Other hazards** This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
 This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SDS	REF 30.9.0020 REF 30.9.0100 REF 30.9.0290 REF 30.9.0500 REF 30.9.0850 REF 30.9.2000 REF 60.9.0100	Safety Data Sheet <i>acc. to ISO/DIS 11014 and</i> <i>(EC) No. 1907/2006 (REACH)</i>	
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3. Composition / Information on Ingredients		
3.1 Chemical Characterization (single substance)		
3.1.1 CAS no. (notation according to EEC)		7647-14-5 sodium chloride (NaCl) 7732-18-5 water (H ₂ O)
3.1.2 Additional Information		-
3.2 Chemical Characterization (Preparation)		
3.2.1 Specification		NaCl in aqueous solution. Concentration in mOsmol/kg and mmol/l (NaCl/H ₂ O), see 1.1
3.2.2 Hazardous Ingredients		no
3.2.3 EINECS no.		See 15.3 International Inventories
3.2.4 Other Data		-
3.3 Indication of Danger		Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. (GHS/CLP) Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
3.4 Special Risks to Human and Environment		No
4. First Aid Measures		
4.1 General Information		No special measures necessary.
4.2 After Inhalation		-
4.3 After Skin Contact		Flush immediately with copious quantities of water.
4.4 After Eye Contact		Causes irritation. Flush immediately with copious quantities of tepid water for at least 5 minutes.
4.5 After Ingestion		In case of queasiness summon a doctor immediately.
4.6 Notes for the Doctor		-
5. Firefighting Measures		
5.1 Extinguisher Media		As appropriate for surrounding fire and materials.
5.2 Extinguisher media that must not be used for safety reasons		-
5.3 Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases		No hazardous substances leak.
5.4 Special Protective Equipment for Firefighting		Firefighters should use self-contained breathing equipment and protective clothing.
5.5 Other Data		This material is assumed to be non-combustible.
6. Accidental Release Measures		
6.1 Personal Precautions		Not necessary. Material is assumed to be non-combustible.
6.2 Environmental Precautions		Do not discharge into surface waters/groundwater.
6.3 Methods for Cleaning Up / Taking Up		Pick up with absorbent material. Send in suitable containers for disposal. Flush with copious quantities of water.
6.4 Other Data		No hazardous substances leak.
7. Handling and Storage		
7.1 Handling		
7.1.1 Advice on safe handling		No particular measures necessary.
7.1.2 Advice on fire and explosion protection.		No. This material is assumed to be non-combustible.
7.2 Storage		
7.2.1 Requirements for storage rooms and vessels		No special requirements.
7.2.2 Hints on storage assembly		n/f
7.2.3 Further information on storage conditions		Unopened between 5°C...45°C (41 - 113°F)
7.2.4 Storage-class (German)		10-13 other liquids and solids
8. Exposure controls / personal protection		

8.1 Additional Hints on Design of Technical Facilities**8.2 Ingredients with occupational exposure limits to be monitored** No particular measures necessary.

8.2.1 CAS no., Notation, Constitution, Value, Unit n/f

8.2.2 Additional Information -

8.3 Personal Equipment

8.3.1 Respiratory Protection -

8.3.2 Hand Protection Safety Gloves (alkali-resistant)

8.3.3 Eye Protection Safety Goggles

8.3.4 Skin Protection Clothing as usual in the chemical industry

8.3.5 General Protective and Hygiene Measures Observe the usual precautions when handling chemicals. Avoid contact with eyes and skin. Use barrier skin cream.

8.3.6 Hygiene Measures Do not eat and drink at work. Before pauses and after work clean hands.

9. Physical and Chemical Properties**9.1 Appearance**

9.1.1 Form Liquid (Aqueous solution in OPC-ampoules)

9.1.2 Colour Colourless

9.1.3 Odour Odourless

9.2 Safety Data (value, range, method- 67/548/EG)

9.2.1 pH-value T=20°C Approx. 5.5

9.2.2 Changes in physical state – Melting Point (NaCl) 801 °C (1473.8°F)

9.2.3 Boiling Point (NaCl) 1413 °C (2575.4°F)

9.2.4 Flash Point n/f

9.2.5 Flammability (solid/gas) Not Inflammable

9.2.6 Ignition Point n/f

9.2.7 Autoflammability n/f

9.2.8 Oxidizing Properties n/f

9.2.9 Explosion Properties Not Explosive

9.2.10 Flammable Limit UFL n/f

LFL n/f

9.3 Other Data -**10. Stability and Reactivity**

10.1 Conditions to Avoid Incompatible products, Excess heat.

10.2 Material to Avoid n/f

10.3 Hazardous Decomposition Products Hydrogen chloride gas. Sodium oxides..

10.4 Other Data

8.1 Additional Hints on Design of Technical Facilities

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9.2.9 Explosion Properties Not Explosive

9.2.10 Flammable Limit UFL n/f

LFL n/f

9.3 Other Data

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10.2 Material to Avoid n/f

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10.4 Other Data

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12. Ecological Information

- 12.1 Data on Elimination (Persistence and Degradability)** Not applicable
- 12.2 Environment-Compartment Proceeding** Quantitative data on the ecological effect of this product are not available.
- 12.3 Ecotoxic Effect**
- 12.3.1 Aquatic Toxicity Contains no hazardous ingredients according to GHS
- 12.3.2 Plants and Terrestrial Animals Contains no hazardous ingredients according to GHS
- 12.4 Other Adverse Effects**
- 12.4.1 CSB-Value mg/kg -
- 12.4.2 BSB₅- Value mg/g n/f
- 12.4.3 AOX-Value Product has no organohalogen compounds and does not redound to the AOX-Value.
- 12.4.4 Product Contains Compositions of Heavy Metal and Chemical Compounds According to Directive 76/464 EEC No
- 12.4.5 General Remarks NaCl solutions have corrosive characteristics on many metals.

13. Disposal Considerations

- 13.1 Product**
- 13.1.1 Recommendation Handle this product according to established good laboratory practise. Transfer the solution in containers for neutral aqueous solutions. Observe local requirements for disposal of chemicals and rest material. Never dispose remainders in house rubbish/sink/WC.
- 13.2 Uncleaned Packing**
- 13.2.1 Recommendation Dispose according to local requirements (law). Waste regulation (EU): 2008/98/EC
- 13.2.2 Recommended Purifying Agent -

14. Transport Information

- 14.1 UN-Number**
DOT, ADR, ADN, IMDG, IATA -
Not a dangerous substance as defined in the above regulations.
- 14.2 UN proper shipping name**
DOT, ADR, ADN, IMDG, IATA -
Not classified as dangerous in the meaning of transport regulations.
- 14.3 Transport hazard class(es)**
DOT, ADR, ADN, IMDG, IATA -
Not classified as dangerous in the meaning of transport regulations.
- 14.4 Packing group**
DOT, ADR, IMDG, IATA -
Not classified as dangerous in the meaning of transport regulations.
- 14.5 Special precautions for user** Not applicable
- 14.6 UN "Model Regulation"** -
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable

15. Regulatory Information

n/f = not found