

Safety Data Sheet

according to Regulation (EC) No 1272/2008

Calibration Standard Solution

Version 1.0

date of compilation: 17/09/2015

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

- 1.1 Product identifier(ArtNr.7186): Calibration standard (250 ml)
- 1.2 Relevant identified uses of the mixture/ uses advised against:Laboratory chemicals /No information available
- 1.3 Details of the supplier of the Safety Data Sheet:
Funke Dr. N. Gerber Labortechnik GmbH
Ringstrasse 42
12105 Berlin
Germany
tel: 0049-30-7020060
www.funke-gerber.de
e-mail: kontakt@funke-gerber.de
- 1.4 Emergency telephone number:
0049-30-70200635 Only available during the following office hours:Mo-Fr (08.00-16.00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. No special risks are known. A safety data sheet is being supplied for it on request.

Label elements

Labelling according to Regulation (EC) No 1272/2008(CLP)

Hazard pictograms:No hazard pictograms

Signal word:No Signal Word

Hazard Statement: No hazard statement

Precautionary Statements:

P 270:Do not eat, drink, smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face protection

P303+P361+P353: If on skin : remove /take off all contaminated clothing.

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2.3 Other hazards

Not regarded as a health or environmental hazard under current legislation. No substance with Community workplace exposure limits. No persistent, bioaccumulative, toxic or very persistent and very bioaccumulative substance according to Annex XIII of REACH

SECTION 3: Composition/information on ingredients

Substance Name	CAS-No EC-No Registration Nr	Classification (REGULATION (EC) No 1272/2008	Concentration %
Sodium chlorid	7647-14-5	Not sufficient for classification	<1%
Water	7732-18-5		>98,5%

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 General information:

Remove contaminated shoes and clothing

Show this material safety data sheet to the doctor in attendance

4.1.2 Following inhalation :Not expected to be an inhalation hazard under anticipated conditions of normal use of this product.

4.1.3 Following skin contact: Please rinse with plenty of water

4.1.4 Following eye contact: rinse out with plenty of water with the eye lid held wide open. Remove contact lenses if present. If irritation persists then get a medical advice.

4.1.5 Following ingestion: clean the mouth with plenty of water. Not expected to present a significant ingestion hazard.

4.1.6 Self-protection of the first aider: remove dirty clothes and shoes

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4.2 Most important symptoms and effects, both acute and delayed:
no known symptoms

4.3 Indication of any immediate medical attention and special treatment needed
none

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Product does not burn

Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Burning may release oxides of carbon and other hazardous gases or vapours. Fight fire from a safe distance/protected location.

5.3 Advice for firefighters

Special protective equipment: As in any fire, wear self-contained breathing apparatus for firefighters

5.4 Additional information: None

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: in case of accidental spills and release of the mixture use personal protective equipment. See section 8

Emergency procedures: remove ignition sources

6.1.2 For emergency responders: Wear personal protective clothing.

Personal protective equipment: See section 8

6.2 Environmental precautions: Do not dump into any sewers, on the ground or into ground water.

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- 6.3 Methods and material for containment and cleaning up
Wipe up with absorbent material (cloth, fleece) Soak up with inert absorbent material (sand, silica gel, acid binder , universal binder, sawdust).
- 6.3.3 Other information: no dangerous substances are released
- 6.4 Reference to other sections: See also section 8+13

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
7.1.1 Protective measures:
Advice on safe handling: Avoid contact with skin and eyes.
Fire preventions: No special preventions against fire are required
Environmental precautions: Avoid subcoil penetration
7.1.2 Advice on general occupational hygiene: do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas
- 7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions
Packaging materials: PE bottles of max 250 ml
Requirements for storage rooms and vessels: Vessels tightly closed. Storage away from heat. Keep away from direct sunlight. Store at 5 °C. Do not refrigerate the product. Bottles that contain less than 1/4 Standard solution can not be used.
This is a quality and not safety information.
Materials to avoid: No information available
- 7.3 Specific end uses:
Specific end uses and recommendations: use as standard to calibrate the cryoscop

SECTION 8: Exposure controls / personal protection.

- 8.1 Control parameters
Occupational Exposure Limits: Solution does not contain a substance with exposure limit

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8.2 Exposure controls

Personal protective equipment

- Eye/Face protection: Wear appropriate protective eyeglasses
- Skin protection: Wear clean body-covering clothes. For prolonged or repeated contact use protective gloves
- Respiratory protection: is not required when product is used for its intended purpose
- Environmental exposure controls: general advice keep away from drains, surface and ground water . See also section 6

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: clear liquid

Odour: none

Odour threshold: not information

pH:5,9

Freezing point: -0,408

Initial boiling point:100,1 °C

Flash point: not applicable

Evaporation rate: not applicable

Vapour pressure(100 °C): not available

Solubility: completely miscible in water, 20 °C

density: close to 1,0 g/cm³

Decomposition temperature: No data available

Explosive properties: the product is not explosive

Oxidising properties: none

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9.2 Other information
none

SECTION 10 : Stability and reactivity

- 10.1 Reactivity : No dangerous reaction known under conditions of normal use
- 10.2 Chemical stability : stable solution
- 10.3 Possibility of hazardous reactions: none under normal processing
- 10.4 Conditions to avoid : there are no specific conditions known which have to be avoid
- 10.5 Incompatible materials: there is no additional information
- 10.6 Hazardous decomposition products: Carbon oxides

SECTION 11: Toxicological information

- 11.1 Information toxicological effects
 - Acute toxicity : Oral LD 50: >430 g/kg(Rat) LD50: Dermal: >1430 g/kg(rabbit)
 - Skin corrosion/irritation: not irritating
 - Serious eye damage/eye irritation: diluted is not irritating the eye
 - Respiratory or skin sensitisation: it does not cause sensitization
 - Germ cell mutagenicity: Not classified in category 1A or 1B
 - Carcinogenicity: no evidence of being carcinogen
 - Reproductive toxicity: not classified as toxic for reproduction
 - STOT-single exposure: no data available
 - STOT-repeated exposure : no data available
 - Aspiration hazard : no hazard
 - Other information: none

SECTION 12: Ecological information

12.1 Toxicity

- Toxicity to fish: LC50 /96 h: 1101 g/l
- Toxicity to daphnia and other aquatic invertebrates: EC50/24 h:314 g/l

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- 12.2 Persistence and degradability : the methods for determination are not applicable for inorganic substances
- 12.3 Bioaccumulative potential : does not bioaccumulate
- 12.4 Mobility in soil: No data available
- 12.5 Results of PBT and vPvB assessment: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)
- 12.6 Other adverse effects: at this dilution not hazardous to water

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
 - Product: treat in accordance with national regulations
 - Contaminated packaging : treat in accordance with national regulations
 - Waste key for the unused product: no key at EWC
 - Waste key for the unused product(Group): no key at EWC

SECTION 14: Transport information

- 14.1 UN Number : Not regulated as a dangerous good
- 14.2 UN proper shipping name: Not regulated as a dangerous good
- 14.3 Transport hazard class: Not regulated as a dangerous good
- 14.4 Packing group: Not regulated as a dangerous good
- 14.5 Environmental hazards: Not regulated as a dangerous good
- 14.6 Special precautions for user: See Section 8
- 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code not applicable for product as supplied

SECTION 15 : Regulatory information

- 15.1 Safety, health and environmental regulations/ legislation specific for the mixture : according to GHS no classification category. According to the national regulations (attachment 2 of VwVwS) this mixture is not hazardous to water .
- 15.2 Chemical Safety Assessment : For this mixture a chemical safety assessment is not required

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SECTION 16: other information

- Abbreviations and acronyms
SDS: Safety data sheet
P 270: Do not eat, drink, smoke when using this product
P280: Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353: If on skin : remove /take off all contaminated clothing.
- The || symbol will be used in case of a revised safety data sheet, as an indication of where changes have been made to the previous version.
- Key Literature
GESTIS Database
European chemicals agency (ECHA) guidance
- This Safety Data Sheet has been compiled and is solely intended for this product. The information provided is correct to the best of our knowledge at the date of its publication. It is written under the current information and it doesn't guarantee for the product properties. It doesn't establish an contractual legal relationship.