

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Saturated Salt Solution**

Revision date: 07.03.2024

Product code: KSO-003

Page 1 of 8

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Saturated Salt Solution

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Laboratory chemicals  
Maintenance and service**Uses advised against**

The product is only to be used for the intended application.

**1.3. Details of the supplier of the safety data sheet**

Company name:	KERN & SOHN GmbH	
Street:	Ziegelei 1	
Place:	D-72336 Balingen-Frommen	
Telephone:	+49743399330	Telefax: +4974339933149
E-mail:	info@kern-sohn.com	
Contact person:	Daniel Junger	Telephone: +497433 9933 155
E-mail:	daniel.junger@kern-sohn.com	
Internet:	www.kern-sohn.com	

**1.4. Emergency telephone number:**

+353 1 8092566 (Healthcare Professionals) +353 1 8092166 (consumer | 8am – 10pm | 7 days a week)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Additional advice on labelling**

The product is not subject to labelling.

**2.3. Other hazards**may cause irritation of eyes. Possible irritation of skin.  
Special danger of slipping by leaking/spilling product.

The product does not meet the PBT or vPvB criteria in Annex XIII of the REACH Regulation.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Sodium chloride in aqueous solution

**Relevant ingredients**

none (according to Regulation (EC) No 1907/2006 (REACH))

**SECTION 4: First aid measures**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Saturated Salt Solution**

Revision date: 07.03.2024

Product code: KSO-003

Page 2 of 8

**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! When in doubt or if symptoms are observed, get medical advice.

**After inhalation**

Provide fresh air. If experiencing respiratory symptoms: Get medical advice/attention.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Remove contact lenses. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Seek medical attention if problems persist.

**4.2. Most important symptoms and effects, both acute and delayed**

may cause irritation of eyes. Possible irritation of skin.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).  
Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

No data available

**5.2. Special hazards arising from the substance or mixture**

The product itself does not burn.

**5.3. Advice for firefighters**

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray.  
Keep away from unprotected people. Keep upwind.

**For non-emergency personnel**

Avoid contact with skin, eyes and clothes.

**For emergency responders**

Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil.

**6.3. Methods and material for containment and cleaning up**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Saturated Salt Solution**

Revision date: 07.03.2024

Product code: KSO-003

Page 3 of 8

**For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.  
Cleaning agent: Water.

**6.4. Reference to other sections**

Handling and storage: see section 7  
Personal protection equipment: see section 8  
For waste disposal see section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**Advice on protection against fire and explosion**

The product itself does not burn.  
Usual measures for fire prevention.

**Advice on general occupational hygiene**

Consider the usual precautions for handling chemicals.  
Remove contaminated, saturated clothing immediately. After work, wash hands and face. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

**Hints on joint storage**

Store separately from foodstuff.  
Do not store together with: Oxidizing agents. Acids. Metal, base. Cement. Bromine trifluoride.  
Lithium.dichloromaleic anhydride. urea

**Further information on storage conditions**

Do not expose product to direct sunlight or extreme heat.  
Recommended storage temperature 15-30°C  
Maximum storage temperature: 39°C

**7.3. Specific end use(s)**

Laboratory chemicals  
Maintenance and service

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Provide protection equipment (eye wash bottles, etc.).

**Individual protection measures, such as personal protective equipment****Eye/face protection**

At the place of work (in production and when refilling): Tightly sealed safety glasses.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Saturated Salt Solution**

Revision date: 07.03.2024

Product code: KSO-003

Page 4 of 8

**Hand protection**

Tested protective gloves are to be worn:

Recommended material: NBR (Nitrile rubber).

Thickness of glove material: &gt;0,35 mm

penetration time (maximum wearing period): &gt;= 8 hours

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Protective clothing.

**Respiratory protection**

Under normal usage conditions, not necessary.

In exceptional situations (eg accidental release of substances, occupational exposure limit is exceeded) the wearing of respiratory protection is required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless, clear
Odour:	odourless
Melting point/freezing point:	(Water) 0 °C
Boiling point or initial boiling point and boiling range:	(Water) 100 °C
Flammability:	no data available
Lower explosion limits:	no data available
Upper explosion limits:	no data available
Flash point:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH-Value:	7
Viscosity / kinematic:	no data available
Water solubility:	complete miscible
Dissolution rate:	no data available
Partition coefficient n-octanol/water:	no data available
Dispersion stability:	no data available
Vapour pressure:	(Water) 23 hPa
Vapour pressure:	(Water) 123 hPa
Density:	1,03 g/cm <sup>3</sup>
Relative density:	no data available
Bulk density:	no data available
Relative vapour density:	(Air=1) 0,62
Particle characteristics:	no data available

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

no data available

Self-ignition temperature

Solid:

no data available

Gas:

no data available

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Saturated Salt Solution**

Revision date: 07.03.2024

Product code: KSO-003

Page 5 of 8

**Other safety characteristics**

Solvent content:	no data available
Sublimation point:	no data available
Softening point:	no data available
Pour point:	no data available

**Further Information**

No data available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No dangerous reactivity under regular conditions.

**10.2. Chemical stability**

The product is stable under regular conditions.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Lithium  
Reaction with: Oxidizing agents. Acids. Metal, base. Cement. Bromine trifluoride. dichloromaleic anhydride.  
urea

**10.4. Conditions to avoid**

none known

**10.5. Incompatible materials**

Oxidizing agents. Acids. Metal, base. Cement. Bromine trifluoride. Lithium

**10.6. Hazardous decomposition products**

When used properly no hazardous products of decomposition are expected.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Saturated Salt Solution**

Revision date: 07.03.2024

Product code: KSO-003

Page 6 of 8

**Further information**

may cause irritation of eyes. Possible irritation of skin.

**SECTION 12: Ecological information****12.1. Toxicity**

Based on available data, the classification criteria are not met.

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)****14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Saturated Salt Solution**

Revision date: 07.03.2024

Product code: KSO-003

Page 7 of 8

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.**14.4. Packing group:** No dangerous good in sense of this transport regulation.**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

Danger releasing substance: No data available.

**14.6. Special precautions for user**

No special precautions known.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No 2019/1021 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

**National regulatory information**

Water hazard class (D): -- non-hazardous to water

**Additional information**

Observe in addition any national regulations!

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 5,7,8,10,11,12,13,15,16.

Version 1,00 - 14.10.2020 - first draft

Version 1,01 - 07.03.2024 - General update

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Saturated Salt Solution**

Revision date: 07.03.2024

Product code: KSO-003

Page 8 of 8

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
BlmSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act  
CAS: Chemical Abstracts Service  
DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)  
EC: Effective Concentration  
EG: European Community (Europäische Gemeinschaft)  
EN: European Norm  
IATA: International Air Transport Association  
IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Code for Dangerous Goods  
ISO: Norm of the International Standards Organization  
CLP: Classification, Labeling, Packaging  
IUCLID: International Uniform Chemical Information Database  
LC: Lethal concentration  
LD: Lethal dose  
log Kow: Octanol/water partition coefficient  
MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships  
OECD: Organisation for Economic Co-operation and Development  
PBT: Persistent, bio-cumulative, toxic  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail  
TRGS: Technische Regeln für Gefahrstoffe  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bio-cumulative  
WGK: German Water Hazard Class  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
TLV: Threshold Limiting Value  
STOT: Specific Target Organ Toxicity  
AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

**Further Information**

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

assesio AG, Ottostraße 1, 63741, Aschaffenburg, Germany

Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@assesio.eu, www.assesio.eu

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*