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### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2021

Version number 1.00

Revision: 22.10.2021

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

- · Product identifier
- · Trade name: Sodium Hypochlorite Solution, 1 percent Chlorine
- · Article number: G154
- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY

Further information obtainable from:
 E-mail: info@caelo.de
 Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number:
 Poison Information Center Bonn
 Venusberg-Campus 1, 53127 Bonn

### 2 Hazards identification

Tel: +49 (0) 228-192400

# Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. • Hazard pictograms



· Signal word Warning

- · Hazard statements
- H315 Causes skin irritation.

H319 Causes serious eye irritation.



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### Trade name: Sodium Hypochlorite Solution, 1 percent Chlorine

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Precautionary statements				
P101	If medical advice is needed, have product container or label at hand.			
P102	Keep out of reach of children.			
P103	Read carefully and follow all instructions.			
P280	Wear protective gloves.			
P280	Wear eye protection / face protection.			
P305+P351+P33	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if			
	present and easy to do. Continue rinsing.			
P332+P313	If skin irritation occurs: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
Other hazards				
· Results of PBT and vPvB assessment				
· PBT: Not applicable.				
· vPvB: Not applicable.				

### 3 Composition/information on ingredients

### · Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

#### · Dangerous components:

CAS: 7681-52-9 sodium hypochlorite, solution EINECS: 231-668-3 Skin Corr. 1B, H314; Aquatic Acute 1, H400

• Non-hazardous components CAS: 7732-18-5 Water

• Additional information: For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

#### · Description of first aid measures

• General information: Immediately remove any clothing soiled by the product.

• After inhalation:

Bring the person out of the contaminated area to fresh air.

- Seek immediate medical advice.
- After skin contact:

Take off contaminated clothes and shoes, wash immediately with plenty of water and soap. Seek medical treatment.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

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### 5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- **Reference to other sections** See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Information about fire and explosion protection: Keep respiratory protective device available.
- Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location. Tightly closed.
- Do not store in metal containers.
- Information about storage in one common storage facility:
- Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- Further information about storage conditions: Store receptacle in a well ventilated area.
- Keep away from heat sources.
- Storage class: TRGS 510: 12 Non-combustible solids



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• Specific end use(s) No further relevant information available.

8 Exposure controls/personal pro	tection				
• Additional information about design of	technical facilities: No further data; see item 7.				
<ul> <li>Control parameters</li> <li>Ingredients with limit values that require monitoring at the workplace:</li> <li>CAS: 1310-73-2 sodium hydroxide</li> <li>MAK (Germany) vgl.Abschn.Ilb</li> <li>CAS: 7782-50-5 chlorine</li> <li>AGW (Germany) Long-term value: 1.5 mg/m<sup>3</sup>, 0.5 ppm</li> </ul>					
<ul> <li>Additional of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.</li> <li>Ferenation to the suitable gloves and the sto be found out by the manufacturer of the protective gloves and has to be found out by the manufacturer of the protective gloves and has to be found out by the manufacturer of the protective gloves and has to be found out by the manufacturer of the protective gloves and has to be found out by the manufacturer of the protective gloves and has to be found out by the manufacturer of the protective gloves and has to be found out by the manufacturer of the protective gloves and has to be found out by the manufacturer of the protective gloves and has to be observed.</li> </ul>					
9 Physical and chemical properties · Information on basic physical and chemical properties · General Information					
<ul> <li>Appearance:</li> <li>Form:</li> <li>Colour:</li> <li>Odour:</li> <li>Odour threshold:</li> </ul>	Fluid Yellow Pungent Not determined.				
· pH-value at 20 °C:	>11				

 Change in condition Melting point/freezing point: 0 °C Initial boiling point and boiling range: 110 °C (Contd. of page 3)

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· Flash point:	Not applicable.	
· Flammability (solid, gas):	Not applicable.	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.	
<ul> <li>Vapour pressure at 20 °C:</li> </ul>	23 hPa	
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.26 g/cm <sup>3</sup> Not determined. Not determined. Not determined.	
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Fully miscible.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
<ul> <li>Solvent content:</li> <li>Water:</li> <li>VOC (EC)</li> </ul>	93.1–96.6 % 0.00 %	
· Other information	No further relevant information available.	

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions Corrosive action on metals.
- · Conditions to avoid No further relevant information available.
- Incompatible materials:

strong bases strong oxidizing agents

- Strong reducing agents
- Metals
- · Hazardous decomposition products:

Chlorine

Hydrogen chloride (HCl)



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### 11 Toxicological information

- · Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · 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**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Very toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.



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### 13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to local regulations.

### 14 Transport information

	Not subject to transport regulations.
ADR, IMDG, IATA	not regulated
· UN proper shipping name	
· ADR, IMDG, IATA	not regulated
<ul> <li>Transport hazard class(es)</li> </ul>	
· ADR, ADN, IMDG, IATA	
· Class	not regulated
<sup>.</sup> Packing group	
· ADR, IMDG, IATA	not regulated
<ul> <li>Environmental hazards:</li> </ul>	Not applicable.
<ul> <li>Special precautions for user</li> </ul>	Not applicable.
<ul> <li>Transport in bulk according to Ann</li> </ul>	iex II of
Marpol and the IBC Code	Not applicable.

### **15 Regulatory information**

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRGS 510: 12 Non-combustible solids
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

Reasons for alterations This version replaces all old versions.

· Relevant phrases

H314 Causes severe skin burns and eye damage.

- H400 Very toxic to aquatic life.
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances



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ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
VOC: Volatile Organic Compounds (USA, EU)	
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Skin Corr. 1B: Skin corrosion/irritation – Category 1B	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
	GB —