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

1.1 **Product identifier**

Identification of the substance: Sodium chlorite

Article number: 4352

Registration number (REACH): not relevant (mixture)

EC number: 231-836-6

CAS number: 7758-19-2

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

Identified uses: laboratory chemical

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

Carl Roth GmbH + Co KG

Schoemperlenstr. 3-5

D-76185 Karlsruhe

Germany

Telephone: +49 (0) 721 - 56 06 0

Telefax: +49 (0) 721 - 56 06 149

e-mail: sicherheit@carlroth.de

Website: www.carlroth.de

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

e-mail (competent person): sicherheit@carlroth.de

1.4 **Emergency telephone number**

Emergency information service: Poison Centre Munich: +49/(0)89 19240

SECTION 2: Hazards identification

2.1 **Classification of the substance or mixture**

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Hazard class</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.14</td>
<td>oxidising solid</td>
<td>(Ox. Sol. 1)</td>
<td>H271</td>
</tr>
<tr>
<td>3.1O</td>
<td>acute toxicity (oral)</td>
<td>(Acute Tox. 3)</td>
<td>H301</td>
</tr>
<tr>
<td>3.1D</td>
<td>acute toxicity (dermal)</td>
<td>(Acute Tox. 2)</td>
<td>H310</td>
</tr>
<tr>
<td>3.2</td>
<td>skin corrosion/irritation</td>
<td>(Skin Corr. 1B)</td>
<td>H314</td>
</tr>
<tr>
<td>3.3</td>
<td>serious eye damage/eye irritation</td>
<td>(Eye Dam. 1)</td>
<td>H318</td>
</tr>
<tr>
<td>3.9</td>
<td>specific target organ toxicity - repeated exposure</td>
<td>(STOT RE 2)</td>
<td>H373</td>
</tr>
<tr>
<td>4.1A</td>
<td>hazardous to the aquatic environment - acute hazard</td>
<td>(Aquatic Acute 1)</td>
<td>H400</td>
</tr>
<tr>
<td>4.1C</td>
<td>hazardous to the aquatic environment - chronic hazard</td>
<td>(Aquatic Chronic 1)</td>
<td>H410</td>
</tr>
</tbody>
</table>
Supplemental hazard information

<table>
<thead>
<tr>
<th>Code</th>
<th>Supplemental hazard information</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH032</td>
<td>contact with acids liberates very toxic gas</td>
</tr>
<tr>
<td>EUH071</td>
<td>corrosive to the respiratory tract</td>
</tr>
</tbody>
</table>

Remarks
For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

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

Signal word
Danger

Pictograms

Hazard statements
H271   May cause fire or explosion; strong oxidiser.
H301   Toxic if swallowed.
H310   Fatal in contact with skin.
H314   Causes severe skin burns and eye damage.
H373   May cause damage to organs through prolonged or repeated exposure.
H410   Very toxic to aquatic life with long lasting effects.

Precautionary statements

Precautionary statements - prevention
P220   Keep/store away from clothing/combustible materials.
P280   Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - response
P301+P330+P331   IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353   IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340   IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338   IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310   Immediately call a POISON CENTER/doctor.

Supplemental hazard information
EUH032   Contact with acids liberates very toxic gas.
EUH071   Corrosive to the respiratory tract.

Hazardous ingredients for labelling: Sodium chlorite, Sodium hydroxide
**Sodium chlorite ~80 %, techn.**

**article number: 4352**

### Labelling of packages where the contents do not exceed 125 ml

**Signal word:** Danger

**Symbol(s)**

- H271: May cause fire or explosion; strong oxidiser.
- H301: Toxic if swallowed.
- H310: Fatal in contact with skin.
- H314: Causes severe skin burns and eye damage.
- P220: Keep/store away from clothing/combustible materials.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353: IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Continue rinsing.
- P310: Immediately call a POISON CENTER/doctor.
- EUH032: Contact with acids liberates very toxic gas.
- EUH071: Corrosive to the respiratory tract.

**contains:** Sodium chlorite, Sodium hydroxide

### Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Description of the mixture

Composition/information on ingredients.

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>wt%</th>
<th>Classification acc. to 1272/2008/EC</th>
<th>Pictograms</th>
<th>Specific Conc. Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chlorite</td>
<td>CAS No 7758-19-2</td>
<td>80</td>
<td>Ox. Sol. 1 / H271</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC No 231-836-6</td>
<td></td>
<td>Acute Tox. 3 / H301</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 2 / H310</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1B / H314</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2 / H373</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1 / H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1 / H410</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EUH032</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EUH071</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>CAS No 1310-73-2</td>
<td>&lt; 1</td>
<td>Met. Corr. 1 / H290</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC No 215-185-5</td>
<td></td>
<td>Skin Corr. 1A / H314</td>
<td></td>
<td>Skin Corr. 1A; H314: C ≥ 5 %</td>
</tr>
<tr>
<td></td>
<td>Index No 011-002-00-6</td>
<td></td>
<td>Eye Dam. 1 / H318</td>
<td></td>
<td>Skin Irrit. 2; H315: 0,5 % ≤ C &lt; 2 %</td>
</tr>
<tr>
<td></td>
<td>REACH Reg. No</td>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319: 0,5 % ≤ C &lt; 2 %</td>
</tr>
<tr>
<td></td>
<td>01-2119457892-27-xxxx</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**

For full text of Hazard- and EU Hazard-statements: see SECTION 16.
SECTION 4: First aid measures

4.1 Description of first aid measures

General notes
Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation
Provide fresh air. IF exposed or concerned: Call a doctor.

Following skin contact
After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. Call a physician in any case.

Following eye contact
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

Following ingestion
Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

4.2 Most important symptoms and effects, both acute and delayed
Corrosion, Pulmonary oedema, Gastrointestinal complaints, Cough, Risk of blindness, Gastric perforation, Risk of serious damage to eyes, Spasms, Dyspnoea, Cyanosis (blue coloured blood)

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings
water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

Unsuitable extinguishing media
water jet

5.2 Special hazards arising from the substance or mixture
Oxidising property. Non-combustible.

Hazardous combustion products
In case of fire may be liberated: hydrogen chloride (HCl), May produce toxic fumes of carbon monoxide if burning.

5.3 Advice for firefighters
Keep containers cool with water spray. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust. Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advises on how to contain a spill
Covering of drains.

Advises on how to clean up a spill
Dampen dust. Take up mechanically. Control of dust.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Handle and open container with care.

• Measures to prevent fire as well as aerosol and dust generation
Removal of dust deposits. Dampen dust. Take any precaution to avoid mixing with combustibles.

• Handling of incompatible substances or mixtures

• Keep away from acids

Advice on general occupational hygiene
When using do not eat or drink. Thorough skin-cleansing after handling the product.

7.2 Conditions for safe storage, including any incompatibilities
Store in a dry place. Keep container tightly closed.

Incompatible substances or mixtures
Observe hints for combined storage.

Consideration of other advice
Store locked up.

• Ventilation requirements
Use local and general ventilation.
Sodium chlorite ~80 %, techn.

article number: 4352

- Specific designs for storage rooms or vessels
  Recommended storage temperature: 15 - 25 °C.

7.3 Specific end use(s)
  No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of agent</th>
<th>CAS No</th>
<th>Notation</th>
<th>Identifier</th>
<th>TWA [mg/m³]</th>
<th>STEL [mg/m³]</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB</td>
<td>sodium hydroxide</td>
<td>1310-73-2</td>
<td></td>
<td>WEL</td>
<td></td>
<td>2</td>
<td>EH40/2005</td>
</tr>
</tbody>
</table>

Notation

STEL  Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.
TWA   Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average.

Relevant DNELs/DMELs/PNECs and other threshold levels

- relevant DNELs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Protection goal, route of exposure</th>
<th>Used in</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>DNEL</td>
<td>0,41 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>DNEL</td>
<td>0,41 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>acute - systemic effects</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>DNEL</td>
<td>0,58 mg/kg bw/day</td>
<td>human, dermal</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>DNEL</td>
<td>0,58 mg/kg bw/day</td>
<td>human, dermal</td>
<td>worker (industry)</td>
<td>acute - systemic effects</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>DNEL</td>
<td>1 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>DNEL</td>
<td>1 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - local effects</td>
</tr>
</tbody>
</table>

- relevant PNECs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Environmental compartment</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>PNEC</td>
<td>0,65 mg/l</td>
<td>freshwater</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>PNEC</td>
<td>0,065 mg/l</td>
<td>marine water</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>PNEC</td>
<td>1 mg/l</td>
<td>sewage treatment plant (STP)</td>
<td>short-term (single instance)</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection
Use safety goggle with side protection. Wear face protection.

Skin protection
• hand protection
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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.
• type of material
NBR (Nitrile rubber)
• material thickness
>0,3 mm
• breakthrough times of the glove material
>480 minutes (permeation: level 6)
• other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection necessary at:
Particulate filter device (EN 143). Dust formation. P3 (filters at least 99,95 % of airborne particles, colour code: White). Aerosol or mist formation. Type: B-P2 (combined filters for acidic gases and particles, colour code: Grey/White).

Environmental exposure controls
Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>solid (powder)</td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
</tr>
<tr>
<td>Odour</td>
<td>this information is not available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Other physical and chemical parameters

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH (value)</td>
<td>10 - 11 (100 g/l, 20 °C)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>180 °C slow decomposition</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>This information is not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Contact with combustible material may cause fire</td>
</tr>
</tbody>
</table>
**Sodium chlorite ~80 %, techn.**

**Explosive limits**
- lower explosion limit (LEL) this information is not available
- upper explosion limit (UEL) this information is not available
- Explosion limits of dust clouds these information are not available

**Vapour pressure** 1,11 Pa at 25 °C
**Density** This information is not available.
**Vapour density** This information is not available.
**Bulk density** 700 - 900 kg/m³
**Relative density** Information on this property is not available.

**Solubility(ies)**
**Water solubility** 800 g/l at 20 °C
**Partition coefficient**
- n-octanol/water (log KOW) This information is not available.

**Auto-ignition temperature** Information on this property is not available.
**Decomposition temperature** no data available
**Viscosity** not relevant (solid matter)
**Explosive properties** Shall not be classified as explosive
**Oxidising properties** strong oxidiser

**9.2 Other information**
There is no additional information.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**
Oxidising property.

**10.2 Chemical stability**
Hygroscopic solid.

**10.3 Possibility of hazardous reactions**
Violent reaction with:
Danger of explosion: Ammonium compounds, Chlorine, Metal powder, Phosphorus, Sulphur, Cyanides

**10.4 Conditions to avoid**
Risk of explosion by shock, friction, fire or other sources of ignition.

**10.5 Incompatible materials**
There is no additional information.
Hazardous decomposition products
Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

- Acute toxicity of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>ATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>oral</td>
<td>278 mg/kg</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>dermal</td>
<td>134 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes severe burns.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitisation
Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

- Specific target organ toxicity - single exposure
Shall not be classified as a specific target organ toxicant (single exposure).

- Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

- If swallowed
vomiting, renal impairment, nausea, If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

- If in eyes
causes burns, Causes serious eye damage, risk of blindness

- If inhaled
pulmonary oedema, corrosive to the respiratory tract

- If on skin
causes severe burns, causes poorly healing wounds

Other information
None
SECTION 12: Ecological information

12.1 Toxicity
Very toxic to aquatic life with long lasting effects.

### Aquatic toxicity (acute)
Very toxic to aquatic organisms.

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Source</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>0,29 mg/l</td>
<td>daphnia magna</td>
<td></td>
<td>48 h</td>
</tr>
<tr>
<td>LC50</td>
<td>&gt;500 mg/l</td>
<td>striped brill (Brachydanio rerio)</td>
<td></td>
<td>96 h</td>
</tr>
</tbody>
</table>

### Aquatic toxicity (acute) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>EC50</td>
<td>0,29 mg/l</td>
<td>daphnia magna</td>
<td>48 h</td>
</tr>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td>LC50</td>
<td>&gt;500 mg/l</td>
<td>striped brill (Brachydanio rerio)</td>
<td>96 h</td>
</tr>
</tbody>
</table>

12.2 Process of degradability
The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
Data are not available.

### Bioaccumulative potential of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>BCF</th>
<th>Log KOW</th>
<th>BOD5/COD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chlorite</td>
<td>7758-19-2</td>
<td></td>
<td>&lt;-2,7</td>
<td></td>
</tr>
</tbody>
</table>

12.4 Mobility in soil
Data are not available.

12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Other adverse effects
Data are not available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods
This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings
It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

13.2 Relevant provisions relating to waste
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks
Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number
1496

14.2 UN proper shipping name
SODIUM CHLORITE

14.3 Transport hazard class(es)
Class
5.1 (oxidizing substances)

14.4 Packing group
II (substance presenting medium danger)

14.5 Environmental hazards
hazardous to the aquatic environment (Sodium chlorite)

14.6 Special precautions for user
Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

  UN number
  1496
  Proper shipping name
  SODIUM CHLORITE
  Particulars in the transport document
  UN1496, SODIUM CHLORITE, 5.1, II, (E), environmentally hazardous
  Class
  5.1
  Classification code
  O2
  Packing group
  II
  Danger label(s)
  5.1 + "fish and tree"
Sodium chlorite ~80 %, techn.

Environmental hazards: yes (hazardous to the aquatic environment)

Excepted quantities (EQ): E2

Limited quantities (LQ): 1 kg

Transport category (TC): 2

Tunnel restriction code (TRC): E

Hazard identification No: 50

**Emergency Action Code**

1Y

**• International Maritime Dangerous Goods Code (IMDG)**

UN number: 1496

Proper shipping name: SODIUM CHLORITE

Particulars in the shipper’s declaration: UN1496, SODIUM CHLORITE, 5.1, II, MARINE POLLUTANT

Class: 5.1

Marine pollutant: yes (hazardous to the aquatic environment)

Packing group: II

Danger label(s): 5.1 + "fish and tree"

**Special provisions (SP):** -

**• International Civil Aviation Organization (ICAO-IATA/DGR)**

UN number: 1496

Proper shipping name: Sodium chlorite

Particulars in the shipper’s declaration: UN1496, Sodium chlorite, 5.1, II

Class: 5.1

Environmental hazards: yes (hazardous to the aquatic environment)

Packing group: II

5.1

United Kingdom (en)
**Sodium chlorite ~80 %, techn.**

**article number: 4352**

Excluded quantities (EQ)  
Limited quantities (LQ)  

---

### SECTION 15: Regulatory information

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

**Relevant provisions of the European Union (EU)**

- **Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**  
  None of the ingredients are listed.

  None of the ingredients are listed.

- **Restrictions according to REACH, Annex XVII**  
  None of the ingredients are listed.

- **List of substances subject to authorisation (REACH, Annex XIV)**  
  None of the ingredients are listed.

- **Seveso Directive**

<table>
<thead>
<tr>
<th>No</th>
<th>Dangerous substance/hazard categories</th>
<th>Qualifying quantity (tonnes) for the application of lower and upper-tier requirements</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2</td>
<td>acute toxic (cat. 2 + cat. 3, inhal.)</td>
<td>50 200</td>
<td>41)</td>
</tr>
<tr>
<td>P8</td>
<td>oxidising liquids and solids</td>
<td>50 200</td>
<td>55)</td>
</tr>
</tbody>
</table>

**Notation**

41) Category 2, all exposure routes  
55) Oxidising liquids, category 1, 2 or 3, or oxidising solids, category 1, 2 or 3

- **Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)**  
  VOC content 0 %

- **Directive on industrial emissions (VOCs, 2010/75/EU)**  
  VOC content 0 %

**Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

None of the ingredients are listed.
Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)
None of the ingredients are listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)
None of the ingredients are listed.

National inventories
- EINECS/ELINCS/NLP (Europe)

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

Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox.</td>
<td>acute toxicity</td>
</tr>
<tr>
<td>ADN</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>hazardous to the aquatic environment - acute hazard</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>hazardous to the aquatic environment - chronic hazard</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>bioconcentration factor</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical Oxygen Demand</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or toxic for Reproduction</td>
</tr>
<tr>
<td>COD</td>
<td>chemical oxygen demand</td>
</tr>
<tr>
<td>DGR</td>
<td>Dangerous Goods Regulations (see IATA/DGR)</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>EC No</td>
<td>The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>EmS</td>
<td>Emergency Schedule</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>seriously damaging to the eye</td>
</tr>
<tr>
<td>Eye Irrit.</td>
<td>irritant to the eye</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
</tbody>
</table>
Sodium chlorite ~80 %, techn.

**Abbr.** | **Descriptions of used abbreviations**
---|---
IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO | International Civil Aviation Organization
IMDG | International Maritime Dangerous Goods Code
index No | the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
log KOW | n-octanol/water
MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr. | substance or mixture corrosive to metals
NLP | No-Longer Polymer
Ox. Sol. | oxidising solid
PBT | Persistent, Bioaccumulative and Toxic
PNEC | Predicted No-Effect Concentration
REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals
RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr. | corrosive to skin
Skin Irrit. | irritant to skin
STEL | short-term exposure limit
STOT RE | specific target organ toxicity - repeated exposure
TWA | time-weighted average
VOC | Volatile Organic Compounds
vPvB | very Persistent and very Bioaccumulative
WEL | workplace exposure limit

**Key literature references and sources for data**
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H271</td>
<td>may cause fire or explosion; strong oxidiser</td>
</tr>
<tr>
<td>H290</td>
<td>may be corrosive to metals</td>
</tr>
<tr>
<td>H301</td>
<td>toxic if swallowed</td>
</tr>
<tr>
<td>H310</td>
<td>fatal in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>causes serious eye damage</td>
</tr>
<tr>
<td>H373</td>
<td>may cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>
Disclaimer
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.