

Cleaning reagent safety document

Buffer solutions and beads kit

2024

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

1.1 Product identifier

Product name

Cleaning reagent (containing <2.5 % sodium hypochlorite)

1.2 Relevant identified Uses of the Substances or Mixtures & Uses advised against

Relevant identified uses

Product intended for scientific research.

Use advised against

Not for domestic or food/drug/cosmetic use.

1.3 Details of the supplier of the safety data sheet

LUMICKS, Paalbergweg 3, 1105 AG Amsterdam, The Netherlands
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1.4 Emergency Response for Hazardous Materials

Emergency phone number

+31 (0) 20 220 0817

Opening hours

9.00-17.00 CET

Section 2: Hazards identification

2.1 Classification of the substance or mixture

- Cleaning reagent contains sodium hypochlorite (<2.5% w/v)
- **Classification according to regulation (EC) No 1272/2008 [CLP]**
- Skin Corrosion 1B
- Eye Damage 1
- Aquatic Acute 1
- Aquatic Chronic 1

2.2 Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H314 + H18

Causes severe skin burns and eye damage.

H400 + H410

Very toxic to aquatic life with long lasting effects

Precautionary statements

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash hands thoroughly after handling.

P273

Avoid release to the environment.

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363

Wash contaminated clothing before reuse.

P304 + P340

IF INHALED: Remove person to fresh air and keep in a position 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.

P391

Collect spillage.

P405

Store locked up.

P501

Dispose of contents/container in accordance with local/regional/national/international regulation.

Section 3: Composition/information on ingredients

The non-hazardous constituents of Cleaning reagent are not listed here.

CAS no: 7681-52-9

EC no: 231-668-3

Index no: 017-011-00-1

% (w/v): 2.5

Name: Sodium hypochlorite

Classification according to Regulation (EC) No 1272/2008 (CLP): Skin corr 1B, Eye Dam. 1, Aquatic acute 1, Aquatic Chronic 1

Section 4: First aid measures

4.1 Description of first aid measures

General advice

Use personal protective equipment. If you feel unwell, seek medical advice (show the label where possible).

In case of inhalation

Move victim to fresh air and keep at rest in a position comfortable for breathing.

In case of skin contact

Remove contaminated clothing. Rinse the affected skin thoroughly with running water and soap. If irritation persists, consult a physician.

In case of eye contact

Remove contact lenses. Rinse eyes thoroughly under running water with the eyelids wide open with eye washing bottle, eye douche or running water.

In case of ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No additional information available.

4.3 Indication of any immediate medical attention and special treatments needed

Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide, dry chemical powder, foam, water

Unsuitable extinguishing media

None

5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapor-air mixtures possible.

5.3 Advice for firefighters

Firefighting instructions

Keep containers cool with a water spray. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

In case of spills, leaks or releases, ventilate the area and do not breath vapours. Avoid contact with skin and eyes.

6.2 Environmental precautions

Prevent spills from entering drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Clear spills immediately. Bind any escaping liquid with inert absorbent. Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in plastic bags for disposal and seal it tightly. Remove, clean or dispose of contaminated clothing.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection. Wash hands after use with mild soap and water before eating, drinking or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Keep original product package. Store at room temperature. Store away from direct sunlight, in a well-ventilated, dry place. Store upright. Keep container tightly closed. Keep away from strong acids and strong oxidisers.

7.3 Specific end use(s)

Product intended for scientific research.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Sodium hypochlorite

EC number: 231-668-3 CAS number: 7681-52-9

DNELs = Derived No Effect Level

Workers long term exposure via inhalation route

1.55 mg/m³

Workers long term exposure via dermal route

No hazard identified

8.2 Exposure controls

Appropriate engineering controls

Use only with adequate ventilation.

Individual protection measures

- Eye protection: Safety glasses
- Hand protection: Chemical resistant gloves
- Skin protection: Protective clothing
- Respiratory protection: Respiratory protection not required in normal conditions

Other information

Do not eat, drink or smoke during use.

Section 9: Physical and chemical properties

The properties listed below are of the mixture 'running buffer 10x'.

Physical state

Liquid

Colour

Colourless to faint yellow color

Odour

Not available

Melting point

Not available

Boiling point

Not available

Flammability

Not available

Explosion limit

Not available

Flash point

Not available

Auto-ignition temperature

Not available

Decomposition temperature

Not available

pH

Alkaline

Kinematic viscosity

Not available

Solubility in water

Soluble

Vapour pressure

Not available

Density and/or relative density

Not available

Relative vapour density

Not available

Section 10: Stability and reactivity

10.1 Reactivity

No additional information available.

10.2 Chemical stability

Stable under normal conditions of use and storage. Slowly decomposes on contact with air. Exposure to sunlight accelerates decomposition. Becomes less hazardous with age.

10.3 Possibility of hazardous reactions

Contact with acids can lead to the release of toxic chlorine gas. Contact with chemical containing ammonia may lead to the formation of explosive compounds and release of chlorine or other noxious gases. Contact with strong oxidising agents can lead to the release of toxic chlorine gas.

10.4 Conditions to avoid

Avoid direct sunlight and high temperatures.

10.5 Incompatible materials

Incompatible with acid, strong oxidising agents and chemical containing ammonia.

10.6 Hazardous decomposition products

In the original package, decompositions are not observed during the expiration period under recommended conditions.

Section 11: Toxicological information

Data for sodium hypochlorite, concentration specified.

Acute toxicity

- **Oral LD50:** 8.8 g/kg for sodium hypochlorite 12.5% (Rat, 14 days)
- **Dermal LD50:** > 20 g/kg bw (Rats, 14 days)
- **Inhalation LC50:** > 10.5 mg/L (Rats, 1h)

Skin corrosion/irritation

Not classified

Serious eye damage/irritation

Not classified

Respiratory or skin sensitization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT-single exposure

Not classified

STOT-repeated exposures

Not classified

Aspiration hazard

Not classified

Section 12: Ecological information

Data for sodium hypochlorite, not for the mixture.

- **Toxicity to fish (LC50):** 0.032 mg/l (Oncorhynchus kisutch)
- **Toxicity to algae (EC50):** 0.05 mg/l

Persistence and degradability

Not established

Bioaccumulative potential

Not established

Mobility in soil

Not available

Endocrine disrupting properties

Not available

Other adverse effects

Not available

Section 13: Disposal considerations

Waste disposal recommendations

Dispose in a safe manner in accordance with local/regional/national/international regulations. Waste should not be disposed of by release into sewers.

Ecology – waste materials

Avoid release to the environment.

Section 14: Transport information

Special shipping information

In accordance with DOT, no dangerous good in sense of transport regulations.

Section 15: Regulatory information

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

This safety datasheet complies with the Regulation (EC) No 1278/2008 (CLP).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

Section 16: Other information

Abbreviations

ADR	Chemical Abstracts Service
CAS	Chemical Abstracts Service
CET	Central European time
CLP	Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures
DOT	Department of Transportation
EC	European Community
EC50	Half maximal effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorization and restriction of Chemicals

Sources

8.1	REACH
11	REACH
12	Bass et al, 1977 and Heath, 1978

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