

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH) and Regulation (EU) No. 453/2010

Product Name: Cleaning Solution

Version: 01

Date: February 23, 2022

1. Identification of the substance/preparation and of the company/undertaking

1.1. Identification of the substance or preparation

Cleaning Solution

The reagent is part of the following catalogue numbers:

3MSR0213

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

General use: Cleaning solution for counting chambers and apertures of a MS Laboratoires haematology cell-counter. To be used only on an MS LABORATOIRES blood cell counter.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Dialab Produktion und Vertrieb von chemisch-technischen Produkten und Laborinstrumenten Gesellschaft m.b.H

Address: Hondastrasse, Objekt M55, IZ-NOE Sued, A-2351 Wr. Neudorf, Austria

Telephone / E-mail: +43 (0)2236 660910-0 / office@dialab.at

1.4. Emergency telephone number

Vienna General Hospital, Toxication Centre, phone: +43-(0)1-4064343

2. Hazards identification

2.1. Classification of the substance or mixture:

Classification according to Directive 1272/2008/EC:



GHS05

Skin Corr. 1B

Eye Dam. 1

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage.



GHS09

Aquatic Acute 1

Aquatic Chronic

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.



GHS07

STOT SE 3

H335 May cause respiratory irritation.

2.2. Label elements:

Labelling (1272/2008/EC):

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

Hazard pictograms



GHS05

GHS07

GHS09

Signal word: Danger

Hazard-determining components of labelling: sodium hypochlorite, solution

Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

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

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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.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH031 Contact with acids

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. Composition / information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Description: Mixture: consisting of the following components.

3.3. Other information

| Dangerous components: | | |
|--|--|--------|
| CAS: 7681-52-9 | Sodium hypochlorite, solution | 25-50% |
| EINECS: 231-668-3 | Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; | |
| Index number: 017-011-00-1 | Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); | |
| Reg.nr.: 01-2119488154-34-0008 | ☠ STOT SE 3, H335 | |
| SVHC: No | | |
| Regulation 648/2004 on Detergents: | | |
| chlorine-based bleaching agents, disinfectants | | ≥30% |

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

| | |
|---|--|
| Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - short-term (acute) aquatic hazard Hazardous to the aquatic environment - long-term (chronic) aquatic hazard | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |
|---|--|

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

4. First aid measures

4.1. Description of first aid measures

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

After excessive inhalation:

In case of unconsciousness place patient in a stable laying down side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

5. Firefighting measures

5.1. Extinguishing media

Use fire extinguishing methods suitable to surrounding conditions.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipment: Mouth respiratory protective device.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear a respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.

Do not allow the product to enter sewers/ surface water or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

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7. Handling and storage

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Do not store together with acids.

Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

8. Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any significant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The most current valid lists have been used as a basis for the production of this document.

8.2. Exposure controls

Appropriate engineering controls:

Not further relevant information available.

Personal protective equipment:

General protective and hygienic measures:

Keep away from food, beverages and petfood.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and the end of work.

Avoid all contact with the eyes.

Avoid contact with eyes and skin.

Respiratory protection: not required.

Protection of hands:



Protective gloves

Gloves material: Butyl rubber, BR

Eye protection:



Tightly sealed goggles

Environmental exposure controls:

No further relevant information available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

| | |
|--|-----------------|
| General Information | |
| Appearance: | |
| Form: | Liquid |
| Colour: | Clear |
| Odour: | Odourless |
| Odour threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/freezing point: | 0 °C |
| Initial boiling point and boiling range: | 100 °C |

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| | |
|--|---|
| Flash point: | Not applicable. |
| Flammability (solid, gas): | Not applicable. |
| Ignition temperature: | Not applicable. |
| Decomposition temperature: | Not determined. |
| Auto-ignition temperature: | Product is not self-igniting. |
| Explosive properties: | Product does not present an explosion hazard. |
| Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Vapour pressure at 20 °C: | 23 hPa |
| Density at 20 °C: | 1.11-1.115 g/cm ³ |
| Relative density: | Not determined. |
| Vapour density: | Not determined. |
| Evaporation rate: | Not determined. |
| Solubility in / Miscibility with water: | Fully miscible. |
| Segregation coefficient (n-octanol/water): | Not determined. |
| Viscosity: | Not determined. |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| Solvent content: | |
| COV: | 0% |

9.2. Other information

No further relevant information available.

10. Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

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

| | | |
|--|------|---------------------|
| LD/LC50 values relevant for classification: | | |
| CAS: 7681-52-9 sodium hypochlorite, solution | | |
| Oral | LD50 | 5,800 mg/kg (mouse) |

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Primary irritant effect:

On the skin:

Causes severe skin burns and eye damage.

On the eyes:

Causes serious eye damage.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, 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

May cause respiratory irritation.

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. Further information

No further relevant information available.

12. Ecological information

12.1. Toxicity

Aquatic toxicity: No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

Ecotoxicological 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.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

12.7. Other information

No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

Recommendation:



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

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| European waste catalogue | |
|--------------------------|---|
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 8 | Corrosive |
| HP 12 | Release of an acute toxic gas |
| HP 14 | Ecotoxic |

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport information

14.1. UN number

ADR, IMDG, IATA: UN1791

14.2. UN proper shipping name

ADR: UN1791 HYPOCHLORITE SOLUTION, ENVIRONMENTALLY HAZARDOUS

IMDG: HYPOCHLORITE SOLUTION, MARINE POLLUTANT

IATA: HYPOCHLORITE SOLUTION

14.3. Transport hazard class(es)

ADR:



Class: 8 (C9) Corrosive substances.

Label: 8

IMDG:



Class: 8 Corrosive substances

Label: 8

14.4. Packing group

ADR, IMDG, IATA: II

14.5. Environmental hazards

Text Product contains environmentally hazardous substances: sodium hypochlorite, solution

Marine pollutant: Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6. Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler): 80

EMS Number: F-A, S-B

Segregation groups Hypochlorites

Stowage Category B

Segregation Code SG20 Stow "away from" acids

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

Transport category: 2

Tunnel restriction code: E

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IMDG

Limited quantities (LQ): 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 1791 HYPOCHLORITE SOLUTION, 8, II, ENVIRONMENTALLY HAZARDOUS

15. Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I sodium hypochlorite, solution

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Reason of Change:

Not applicable.

Contact person: see section 1.3

Dialab GmbH provides the information in this data sheet in good faith, declaring it is up to date at time of revision. However, this document is intended only as a guide for professional use, according to the intended purposes of the product. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

The product is for use only by trained personnel.