

MATERIAL SAFETY DATA SHEET

MSDS QRR010932

Version: D06-EN (15-09-2011)


According to 1907/2006, Article 31

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Product details


Trade name: Disinfectant
Article number: QRR 010932
Application of the substance/preparation: For Laboratory, Research or Manufacturing use.
Manufacturer / Supplier: Mechatronics Instruments B.V.
P.O. Box 225
1620 AE Hoorn
The Netherlands
Phone: +31 (0)229 - 29 11 29
Fax: +31 (0)229 - 24 15 34
Informing department: Aftersales department
Contact: Konstantin Artz
Email: support@mechatronics.nl
Emergency information: Aftersales department
During normal office hours (8 a.m. till 4:30 p.m., GMT+1)
Phone: +31 (0) 229 29 11 28

2. HAZARDS IDENTIFICATION

Hazard designation:  Xi Irritant

Information pertaining to particular dangers for man and environment: R36/38: Irritating to eyes and skin

Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

GHS label elements:  **Danger**

3.2/1C

H314: Causes severe skin burns and eye damage.

Prevention: P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 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 or doctor/physician.




Storage: P405: Store locked up.

3. COMPOSITION / DATA ON COMPONENTS

Chemical characterisation:

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

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|-------------------------------------|-------------------------------|---|------|
| CAS: 7681-52-9 EINECS: 231-668-3 | Sodium hypochlorite, solution |  C; R 34  N; R 50 Danger: 3.2/1B, H314 Warning: 4.1.A/1, H400 | < 1% |
| CAS: 1310-73-2 EINECS: 215-185-5 | Sodium hydroxide |  C; R 35 Danger: 3.2/1A, H314 | < 1% |

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

4. FIRST AID MEASURES

General information: No special measures required.

After inhalation: In case of unconsciousness bring patient into stable side position for transport.

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

After eye contact: Rinse opened eye for several minutes under running water. In case of persistent symptoms consult doctor.

After swallowing: Rinse out the mouth. In case of persistent symptoms consult doctor.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents: CO², extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Protective equipment: No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Not required.

Measures for environmental protection: No special measures required.

Measures for cleaning/collecting: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling

Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
Avoid formation of aerosols.

Information about protection against explosions and fires: No special requirements.

Storage

Requirements to be met by store rooms and containers: No special requirements.

Information about storage in one common storage facility: No special requirements.

Further information about storage conditions: Store in cool, dry conditions in well sealed containers.

Shelf life

After production: 2 years, but no longer than the expiry date.

After opening the packaging: Maximum of 3 month at advised temperature of 5 till 25°C.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

Components with critical values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the compilation were used as basis.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

Breathing equipment: In case of brief exposure or low pollution use breathing filter apparatus.
In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands: Protective gloves.

Glove material: The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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| Penetration time of glove material: | The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| Eye protection: | Tightly sealed safety glasses. |
| Body protection: | Protective work clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Form: | Fluid. |
| Colour: | Colourless. |
| Smell: | Chlorine bleach odour. |
| Melting temperature: | 0°C |
| Boiling temperature: | 96°C |
| Flash point: | Not applicable. |
| Self-inflammability: | Product is not self-igniting. |
| Danger of explosion: | Product is not explosive. |
| Steam pressure at 20°C: | 23 hPa |
| Density at 20°C: | 1 g/cm ³ @ 25°C |
| pH-value at 20°C: | 12.4 |
| Solubility in / Miscibility with water: | Fully miscible. |
| Organic solvents: | 0% |

10. STABILITY AND REACTIVITY

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| Thermal decomposition / conditions to be avoided: | Heat, boiling temperatures. |
| Dangerous reactions: | No dangerous reactions known. |
| Dangerous products of decomposition: | No dangerous decomposition products known. |

11. TOXICOLOGICAL INFORMATION

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| Primary irritant effect on the skin: | Irritant for skin and mucous membranes. |
| Primary irritant effect on the eye: | Irritant effect. |
| Sensitisation: | No sensitising effect known. |
| Additional toxicological information: | The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant |

12. ECOLOGICAL INFORMATION

General notes: Water hazard class (D) 1 (Self-assessment): Slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
 Discharge of large quantities into water can lead to an increase of the pH-value, which can damage aquatic organisms.
 When diluted to the application concentration, the pH-value is decreased considerable, so that the waste water that reaches the sewage system only constitutes a small danger to the water.

13. DISPOSAL CONSIDERATIONS

Product

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

Un-cleaned packaging

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

14. TRANSPORT INFORMATION

Land transport ADR/ RID and GGVS/ GGVE (cross-border/ domestic)



ADR/ RID – GGVS/ GGVE class: 8 (C7) Corrosive substances

Kemler number: 80

UN number: 3267

Packing group: III

Label: 8

Designation of goods: 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (SODIUM HYDROXIDE. HYPOCHLORITE SOLUTION)

Limited quantities (LQ): LQ7

Transport category: 3

Tunnel restriction code: E

Maritime transport IMDG/ GGVSea




IMDG class: 8

EMS number: F-A,S-B

UN number: 3267

Marine pollutant: No.

Packing group: III

| | |
|--|--|
| Label: | 8 |
| Correct technical description: | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (SODIUM HYDROXIDE. HYPOCHLORITE SOLUTION) |
| <u>Air transport ICAO-TI / IATA-DGR</u> |  |
| ICAO/ IATA class: | 8 |
| UN number: | 3267 |
| Packing group: | III |
| Label: | 8 |
| Correct technical description: | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (SODIUM HYDROXIDE. HYPOCHLORITE SOLUTION) |
| <u>UN "Model regulation":</u> | UN3267, CORROSIVE LIQUID, BASIC, ORGANIC,N.O.S, 8, III |

15. REGULATORY INFORMATION

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|--|---|
| Designation according to EC guidelines: | The product has been classified and labelled according to the CLP regulation. |
| Hazard pictograms/Signal word: | GHS05, Danger |
| Hazard statements: | H314: Causes severe skin burns and eye damage. |
| Precautionary statements: | P260: Do not breathe dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 or doctor/physician. P405: Store locked up. |

National regulations

Water hazard class: (D) 1 (Self-assessment): Slightly hazardous for water.

16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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| Hazard statements: | H314: Causes severe skin burns and eye damage. H400: Very toxic to aquatic life. |
| Relevant R-phrases: | R 31: Contact with acids liberates toxic gas R 34: Causes burns R 35: Causes severe burns R 50: Very toxic to aquatic organisms |