

**MATERIAL SAFETY DATA SHEET**

**MSDS QRR010905\_915**

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

According to 1907/2006, Article 31

**1. IDENTIFICATION OF SUBSTANCE AND COMPANY**

**Product details**

**Trade name:** Cleaning agent

**Article number:** QRR 010905, QRR 010915


**Application of the substance/preparation:** Laboratory chemicals.

**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  
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**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:**  **Warning**  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.

**Prevention:** P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P321: Specific treatment (see on this label).  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.

### 3. COMPOSITION / DATA ON COMPONENTS

**Chemical characterisation:**

**Description:** A blend of highest quality amphoteric surface active agents, stabilising agents, alkalis and sequestering agents, in an aqueous base.

**Dangerous components:**

CAS: 1310-73-2 EINECS: 215-185-5	Sodium hydroxide	 C; R 35 Danger: 3.2/1A	< 5%
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**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:** Rinse immediately with plenty of water. In case of persistent symptoms consult doctor.
- After eye contact:** Rinse opened eye for several minutes under running water. In case of persistent symptoms consult doctor.
- After swallowing:** Drink copious amounts of water and supply fresh air. Seek medical treatment immediately. Do not promote vomiting.

### 5. FIRE FIGHTING MEASURES

- Suitable extinguishing agents:** CO<sup>2</sup>, 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:** Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection:** Dilute with plenty of water.
- 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:** Avoid contact with the eyes and skin.
- Information about protection against explosions and fires:** No special requirements.

**Storage**

- Requirements to be met by store rooms and containers:** Store the concentrate at ambient temperature, in the container in which it is supplied, sealed, out of direct sunlight and away from strong acids and aluminium.

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

**Further information about storage conditions:** Use glass, ceramic, plastic (not polycarbonate) or stainless steel vessels for working solutions.

**Shelf life**

**After production:** 5 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:** Not necessary if room is well-ventilated.

**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.

**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**

**Form:** Fluid.

**Colour:** Very pale yellow.

**Smell:** Faint odour.

<b>Melting temperature:</b>	-5.6°C
<b>Boiling temperature:</b>	100.8°C
<b>Flash point:</b>	Not applicable.
<b>Self-inflammability:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Product is not explosive.
<b>Steam pressure at 20°C:</b>	23 hPa
<b>Density at 20°C:</b>	1.117 g/cm <sup>3</sup> @ 25°C
<b>pH-value at 20°C:</b>	> 13 (concentrate)
<b>Solubility in / Miscibility with water:</b>	Fully miscible.
<b>Organic solvents:</b>	0%
<b>Water:</b>	98.2%
<b>Solids content:</b>	0.8%

## 10. STABILITY AND REACTIVITY

<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>Dangerous reactions:</b>	May react violently with strong acids.
<b>Dangerous products of decomposition:</b>	May produce hydrogen in contact with aluminium.
<b>Additional information:</b>	Will tend to corrode non-ferrous metals, notably aluminium and zinc.

## 11. TOXICOLOGICAL INFORMATION

<b>Primary irritant effect on the skin:</b>	Irritant for skin and mucous membranes.
<b>Primary irritant effect on the eye:</b>	Irritant effect.
<b>Sensitisation:</b>	No sensitising effect known.
<b>Additional toxicological information:</b>	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

<b>General notes:</b>	Product is biodegradable.
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## 13. DISPOSAL CONSIDERATIONS

### Product

<b>Recommendation:</b>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
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### Un-cleaned packaging

<b>Recommendation:</b>	Disposal must be made according to official regulations.
<b>Recommended cleaning agent:</b>	Water, if necessary with cleaning agent.

## 14. TRANSPORT INFORMATION

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

ADR/ RID – GGVS/ GGVE class: Void.

### Maritime transport IMDG/ GGVSea

IMDG class: Void.

Marine pollutant: No.

### Air transport ICAO-TI / IATA-DGR

ICAO/ IATA class: Void.

UN "Model regulation": Void.

## 15. REGULATORY INFORMATION

**Designation according to EC guidelines:** The product has been classified and labelled in accordance with the applicable EC directives and ordinances.

**Code letter and hazard designation of product:** Xi Irritant

**Risk phrases:** R36/38: Irritating to eyes and skin

**Safety phrases:** S 24/25: Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.  
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### National regulations

**Water hazard class:** Not applicable.

## 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.

**Relevant R-phrases:** R36/38: Irritating to eyes and skin