

SAFETY DATA SHEET

SDS QRR010947

Version: D05-EN (01-02-2023)

According to Regulation (EC) 1907/2006, Article 31

Section 1 Identification of substance and company

1.1 Product identifier

Trade name Starrsed Disinfectant**Article number** QRR 010947**1.2 Relevant identified uses of the substance or mixture and uses advised against** Product for automatic disinfection of the waste system of Starrsed ESR analyzers.**1.3 Details of the supplier of the safety data sheet** Mechatronics Instruments B.V.
P.O. Box 225
1620 AE Hoorn
The Netherlands
Phone: +31 229 291 129**Informing department** **Contact:** Support Department
Email: support@rrmechatronics.com**1.4 Emergency telephone number** Support
During normal office hours (8 a.m. till 4:30 p.m., GMT+1)
Phone: +31 229 291 129

Section 2 Hazards identification

Hazard designation:

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) 1272/2008 (CLP)
Aquatic Chronic 3; H412

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Corr. 1; H314

Notes on classification:

Product is classified as "Corrosive" based on the extreme pH-value, see:

- Regulation 1272/2008 (CLP), Annex. I, number 3.2.2.2 / 3.2.3.1.2

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP
 Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements



Danger

H290: May be corrosive to metals
 H314: Causes severe skin burns and eye damage.
 H412: Harmful to aquatic life with long lasting effects

Precautionary statements (P)

Prevention:
 P260: Do not breathe dust/fume/gas/mist/vapours/spray
 P264: Wash hands thoroughly after handling.
 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.

Section 3 Composition / data on components

3.2 Mixtures

Description Mixture of the substances listed below with harmless additions.

Dangerous components

No	Product identifier	Chemical name	Classification	Concentration	%
1	CAS: 7681-52-9 EC: 231-668-3	SODIUM HYPOCHLORITE	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH031 Eye Dam. 1; H318 Skin Corr. 1B; H314	< 2,5	wt%
2	CAS 1310-73-2 EC: 215-185-5	SODIUM HYDROXIDE	Skin Corr. 1A H314	<2,5	wt%

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

No	Note		M-Factor (acute)	M-Factor (chronic)
1	B	EUH031: C >= 5%	M=10	M=1

2	-	Eye Irrit. 2; H319: C \geq 0,5% Skin Irrit. 2; H315: C \geq 0,5% Skin Corr. 1B; H314: C \geq 2% Skin Corr. 1A; H314: C \geq 5%	-	-
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Section 4 First aid measures

General information Get medical advice/attention if you feel unwell.

4.1 Description of first aid measures

After inhalation Call a doctor or poison control centre immediately. Move to fresh air. Apply artificial respiration if victim is not breathing. If breathing is difficult, give oxygen.

After skin contact Call a doctor or poison control centre immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly clean contaminated shoes.

After eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a doctor or poison control centre immediately.

After swallowing Call a doctor or poison control centre immediately. Rinse mouth. Never give liquid to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed No data available

4.3 Indication of any immediate medical attention and special treatment needed

Hazards No data available

Treatment Treat symptomatically. Symptoms may be delayed.

Section 5 Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents Use fire-extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture None known.

5.3 Advice for firefighters Fight fire with normal precautions from a reasonable distance. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and Wear protective clothing. Keep unprotected persons away.

emergency procedures**6.2 Environmental precautions**

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not allow product to reach sewage system.

6.3 Methods and material for containment and cleaning up

Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

Information conc. safe use - see sec. 7
Information conc. personal protection - see sec. 8
Information conc. salvage - see sec. 13

Section 7 Handling and storage**7.1 Precautions for safe handling**

Protective work clothing. Instantly remove any soiled and impregnated garments. Keep away from foodstuffs, beverages and food. Wash hands during breaks and at the end of the work.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry conditions in well sealed containers.

Storage class (TRGS 510)

8A: Combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values:**

List of approved workplace exposure limits (WELs) / EH40:
Substance name: Sodium hydroxide, CAS 1310-73-2/EC 215-185-5
short-term (15 min reference period) 2 mg/m³

8.2 Exposure control**Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practical this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Protective equipment**General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

Respiratory Protection

Not necessary if room is well-ventilated.

Protection of hands

Protective gloves must be worn with the CE-label including the four control digits. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

	<i>full contact:</i>	<i>splash contact:</i>
Glove material	Nitrile rubber	Nitrile rubber
Glove thickness	0,11 mm	0,11 mm
Break through time	480 min	480 min
Eye protection	Safety glasses.	

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form Liquid.

Colour Colourless.

Odeur Acrid

Odeur threshold No data available

pH-value at 20°C 13

Melting point/freezing point 0°C

Boiling temperature 96°C

Flash point No data available

Evaporation rate No data available

Flammability (solid, gas) Product is not self-igniting.

Vapour pressure 1.100 hPa (50°C)

Density at 20°C: 1 g/cm³(20°C)

Relative density No data available

Vapour density No data available

Solubility(ies)

Solubility in water No data available

Solubility(others) No data available

Partition coefficient: n-octanol/water No data available

Auto-Ignition temperature No data available

Decomposition temperature No data available

Viscosity

Dynamic No data available

Kinematic No data available

Explosive properties Product is not explosive.

Oxidizing properties: No data available

9.2 Other information No further relevant information available

Section 10 Stability and reactivity

10.1 Reactivity No dangerous reactions known under conditions of normal use

10.2 Chemical stability Material is stable under normal conditions

10.3 Possibility of hazardous reactions Hazardous polymerization does not occur.

10.4 Conditions to avoid No special precautions.

10.5 Incompatible materials None known.

10.6 Hazardous decomposition products Not determined.

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity No data available

Carcinogenicity No data available

Reproductive toxicity No data available

STOT-single exposure No data available

STOT-repeated exposure No data available

Aspiration hazard No data available

Section 12 Ecological information

12.1 Toxicity

Fish toxicity: No data available

Daphnia toxicity: No data available

Algae toxicity: No data available

Bacteria toxicity: No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available

12. 5 Results of PBT and vPvB assessment No data available

12. 6 Other adverse effects No data available

Section 13 Disposal considerations

13.1 Waste treatment methods

General information No data available

Disposal methods Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

Section 14 Transport information

14.1 UN number UN3266

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA CORROSIVE LIQUID. BASIC, INORGANIC. N.O.S.

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA 8

Kemler number: 80

EMS Number F-A, S-B

14.4 Packing group

ADR, IMDG, IATA III

14.5 Environmental hazards

14.6 Special precautions for user No data available

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Section 15 Regulatory information

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

Designation according to EC guidelines:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Regulation (EC) No 1907/2006 (REACH).

**Directive 2012/18/EC
(Seveso III)**

<i>Chemical name</i>	<i>CAS No</i>	<i>Concentration</i>
SODIUM HYPOCHLORITE	7681-52-9	1 - 2%

EU 166/2006 PRTR

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Directive (EC) No 98/24

<i>Chemical name</i>	<i>CAS No</i>	<i>Concentration</i>
SODIUM HYPOCHLORITE	7681-52-9	1 - 2 %
SODIUM HYDROXIDE	1310-73-2	0,1 - 1%

National regulations: Water hazard class: 2

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

Section 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 phrases:

- H290: May be corrosive to metals
- H314: Causes severe skin burns and eye damage.
- H412: Harmful to aquatic life with long lasting effects