

SAFETY DATA SHEET

SDS ARPU110906

Version: D05-EN (22-08-2023)

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

Section 1 Identification of substance and company

1.1 Product identifier

Trade name Supplier - RR Mechatronics: RPU-Disinfectant

Laboratory chemicals.

Manufacturer - Boom B.V.: Sodium hypochlorite 60-185g/l active

Chlorine

Article number Supplier - RR Mechatronics: SARPU110906 (2xARPU110906)

Manufacturer - Boom B.V.: 76050474

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

against

1.3 Details of the supplier Mechatronics Instruments B.V.

of the safety data sheet P.O. Box 225 1620 AE Hoorn

1620 AE Hoorn The Netherlands

Phone: +31 229 291 129

Informing department Contact: Support Department

Email: support@rrmechatronics.com

1.4 Emergency telephone

number

Manufacturer - Boom B.V.

During normal office hours (8 a.m. till 5:00 p.m., GMT+1)

Phone: +31 522 268 700

Section 2 Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) 1272/2008 (CLP):

Corrosive to metals, Category 1, H290

Skin corrosion/irritation, Category 1, Subcategory 1A, H314

Serious eye damage/eye irritation, Category 1, H318

Specific target organ toxicity — Single exposure, Category 3,

Respiratory tract irritation, H335

Hazardous to the aquatic environment — Acute Hazard, Category 1,

H400

Hazardous to the aquatic environment - Chronic Hazard, Category 3,

H412

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. May cause respiratory irritation. Causes

physicochemical, human severe skin burns and eye damage. Very toxic to aquatic life.



2.2 Label elements

Labelling according Regulation (EC) 1272/2008 [CLP]

Hazard pictograms





Signal word (CLP) Danger

Hazardous ingredients Sodium hypochlorite 60-185g/l active Chlorine; Sodium carbonate

anhydrous, technical grade; Sodium hydroxide, pellets, technical

Hazard statements (CLP) H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation

H410: Very toxic to aquatic life with long lasting effects.

Precautionary P261 - Avoid breathing vapours.

statements (CLP) P280 - Wear protective gloves, protective clothing, eye protection.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.. Immediately call a POISON CENTER, a doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor. P321 - Specific treatment (see supplemental first aid instruction on

this label).

P391 - Collect spillage.

EUH-statements EUH031: Contact with acids liberates toxic gas

UFI P7P7-Q54G-627Y-N5KM

2.3 Other hazards None under normal conditions



Section 3 Composition / data on components

3.1 Substances Not applicable.

3.2 Mixtures

NAME	PRODUCT IDENTIFIER	%	CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008 [CLP]
Sodium carbonate anhydrous, technical grade	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2	≥1-<5	Skin Corr. 1, H314 Eye Dam. 1, H318
Sodium hypochlorite 60- 185g/l active Chlorine	(CAS-No.) 7681-52-9 (EC-No.) 231-668-3	≥ 1 – < 5	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sodium hydroxide, pellets, technical	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01- 2119457892-27	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318

SPECIFIC CONCENTRATION LIMITS:						
Sodium hydroxide, pellets, technical	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01- 2119457892-27	(0,5 ≤C < 2) Skin Irrit. 2, H315 (0,5 ≤C < 2) Eye Irrit. 2, H319 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C ≤ 100) Skin Corr. 1A, H314				

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

Section 4 First aid measures

4.1 Description of first aid

measures

General information Call a doctor or poison control centre immediately.

After inhalation Remove person to fresh air and keep comfortable for breathing. Call

a poison center or a doctor if you feel unwell.

After skin contact Rinse skin with water/shower. Take off immediately all

contaminated clothing. Call a physician immediately.

After eye contact Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Call a physician



immediately.

After swallowing Rinse mouth. Do not promote vomiting. Call a physician

immediately.

4.2 Most important symptoms and effects. both acute and delayed

Symptoms/effects after

inhalation

May cause respiratory irritation.

Symptoms/effects after skin Burns

contact

Symptoms/effects after eye Serious damage to eyes

contact

Symptoms/effects after

ingestion

Burns

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5 Fire fighting measures

5.1 Extinguishing media

Water spray. Dry powder. Foam. Carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

Toxic fumes may be released.

5.3 Advice for firefighters Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus. Complete protective clothing.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency

personnel

Ventilate spillage area. Avoid contact with skin and eyes. Do not

breathe vapours.

6.1.2 For emergency

personnel

Do not attempt to take action without suitable protective equipment.

For further information refer to section 8: "Exposure

controls/personal protection".

Avoid release to the environment.

6.2 Environmental

precautions

6.3 Methods and material for containment and

cleaning up

For containment

Collect spillage

Methods for cleaning up Take up liquid spill into absorbent material.



Other information Dispose of materials or solid residues at an authorized site.

6.4 Reference to other

sections

For further information refer to section 13.

Section 7 Handling and storage

7.1 Precautions for safe

handling

Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe vapours. Wear personal protective

equipment.

Wash contaminated clothing before reuse. Do not eat, drink or **Hygiene measures**

smoke when using this product.

Always wash hands after handling the product.

7.2 Conditions for safe storage, including any

incompatibilities

Storage conditions Store in corrosive resistant container with a resistant inner liner.

Keep only in original container.

Store locked up. Store in a well-ventilated place. Keep container

tightly closed. Keep cool.

Incompatible materials Metals

7.3 Specific end use(s) No additional information available

Section 8 Exposure controls/personal protection

8.1 Control parameters No additional information available

8.2 Exposure control

Appropriate engineering

controls

Ensure good ventilation at the work station.

Protection of hands Protective gloves.

> **Material Permeation** Thickness (mm) Nitrile rubber (NBR) 6 (> 480 min) 0.4 Polyvinylchloride 6 (> 480 min) 0.7

(PVC)

Eye protection Tightly sealed safety glasses.

Skin and body protection Wear suitable protective clothing

Respiratory Protection In case of insufficient ventilation wear suitable respiratory

equipment.

Personal protective equipment symbol(s)



Environmental exposure controls

Avoid release to the environment.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties



General information

Appearance

Form Liquid.
Colour Yellow.

Odeur Characteristic.

Odeur threshold No data available

pH-value at 20°C 12

Melting point/freezing

point

-20-30°C/No data available

Boiling temperature 100°C

Flash point No data available

Auto-ignition temperature No data available

Flammability (solid, gas) Not applicable.

Vapour pressure 23 hPa (20°C)

Density at 20°C: 1.22 g/cm³

Relative density No data available Vapour density Not determined.

Solubility(ies)

Solubility in water Soluble in water

Partition coefficient: n- No data available

octanol/water

Auto-Ignition temperature No data available

Decomposition No data available
temperature

Viscocity

Dynamic No data available No data available Explosive properties No data available Oxidizing properties: No data available

9.2 Other information No further relevant information available

Section 10 Stability and reactivity

10.1 Reactivity The product is non-reactive under normal conditions of use, storage

and transport.

10.2 Chemical stability Stable under normal conditions

10.3 Possibility of No dangerous reactions known under normal conditions of use. hazardous reactions

10.4 Conditions to avoid No dangerous reactions known under normal conditions of use (see

section 7)

10.5 Incompatible

materials

Metals



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10.6 Hazardous

Under normal conditions of storage and use, hazardous

decomposition products decomposition products should not be produced.

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)Not classifiedAcute toxicity (dermal)Not classifiedAcute toxicity (inhalation)Not classified

LD/LC50-values: Sodium hypochlorite 60-185g/l active Chlorine (7681-52-9)

LD50 oral rat 5800

Sodium carbonate anhydrous, technical grade (497-19-8)

LD50 oral rat: 4090 mg/kg

Sodium hydroxide, pellets, technical (1310-73-2)

LD50 oral rat: 2000 mg/kg

Causes serious eye damage.

Skin corrosion/irritation Causes severe skin burns

PH: 12

Serious eye damage/eye

irritation

.....

PH: 12

Respiratory or skin

sensitation

Not classified

Germ cell mutagenicity Not classified
Carcinogenicity Not classified
Reproductive toxicity Not classified

STOT-single exposure May cause respiratory irritation

STOT-repeated exposure Not classified Aspiration hazard Not classified



Section 12 Ecological information

12. 1 Toxicity

Ecology general Very toxic to aquatic life. Hazardous to the aquatic Very toxic to aquatic life.

environment, short-term (acute)

Hazardous to the aquatic

environment, long-term (chronic)

Harmful to aquatic life with long lasting effects

Not rapidly degradable

12. 2 Persistence and No additional information available

degradability

12. 3 Bioaccumulative

potential

No additional information available

No additional information available 12. 4 Mobility in soil

12. 5 Results of PBT and

vPvB assessment

No additional information available

12. 6 Other adverse

effects

No additional information available

Section 13 Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Section 14 Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID		
14.1 UN number						
UN 1791	UN 1791	UN 1791	UN 1791	UN 1791		
14.2 UN proper shipping name						
HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	Hypochlorite solution	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION		
Transport document description						
UN 1791 HYPOCHLORITE SOLUTION, 8, II, (E), ENVIRONMENTA LLY HAZARDOUS		UN 1791 Hypochlorite solution, 8, II, ENVIRONMENTA LLY HAZARDOUS	UN 1791 HYPOCHLORITE SOLUTION, 8, II, ENVIRONMENTA LLY HAZARDOUS	UN 1791 HYPOCHLORITE SOLUTION, 8, II, ENVIRONMENTA LLY HAZARDOUS		



14.3 Transport hazard class(es)

8

8

8

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8





















14.4 Packing group

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14.5 Environmental hazards

Dangerous for the Dangerous for the environment: Yes

environment: Yes Marine pollutant:

Dangerous for the Dangerous for the

environment: Yes environment: Yes environment: Yes

Yes

No supplementary information available

14.6 Special precautions for user

Overland transport

Classification code (ADN) **C9** 521

Special provisions (ADN) Limited quantities (ADN) 11

Excepted quantities (ADN) E2

Packing instructions (ADR) P001, IBC02

Special packing provisions (ADR)

PP10, B5

Mixed packing provisions **MP15**

(ADR)

Portable tank and bulk **T7** container instructions (ADR)

Portable tank and bulk container special provisions

TP2, TP24

(ADR)

Tank code (ADR) L4BV(+)

Tank special provisions

(ADR)

TE11

Vehicle for tank carriage **AT** Transport category (ADR) 2 Hazard identification number 80



(Kemler No.)

Orange plates

80 1791

Tunnel restriction code (ADR)

Transport by sea

Packing instructions (IMDG) P001 Special packing provisions **PP10**

(IMDG)

IBC packing instructions IBC02

(IMDG)

IBC special provisions

(IMDG)

B5

Tank instructions (IMDG) **T7**

Tank special provisions

(IMDG)

TP2, TP24

F-A EmS-No. (Fire) S-B EmS-No. (Spillage) Stowage category (IMDG) В

Segregation (IMDG) **SG20**

Properties and observations Liquid with chlorine odour. In contact

(IMDG)

with acids, evolves very irritating and corrosive gases. Mildly corrosive to most metals. Causes burns to skin, eyes and

mucous membranes

Air transport

PCA Excepted quantities E2

(IATA)

PCA Limited quantities

(IATA)

Y840

PCA limited quantity max

0.5L

net quantity (IATA)

851

PCA packing instructions

(IATA)

PCA max net quantity (IATA)

1L

CAO packing instructions

855

(IATA)

CAO max net quantity

(IATA)

30L



Special provisions (IATA) A3, A803

ERG code (IATA) 8L

Inland waterway transport

Classification code (ADN) C9
Special provisions (ADN) 521

Limited quantities (ADN) 1 L

Excepted quantities (ADN) E2

Equipment required (ADN) PP, EP

Number of blue cones/lights 0

(ADN)

Rail transport

Classification code (RID) C9

Special provisions (RID) 521

Limited quantities (RID) 1 L

Excepted quantities (RID) E2

Packing instructions (RID) P001, IBC02

Special packing provisions

(RID)

Mixed packing provisions MP15

(RID)

Portable tank and bulk T7

container instructions (RID)

Portable tank and bulk container special provisions

(RID)

(טוא)

Tank codes for RID tanks (RID)

Special provisions for RID T

tanks (RID)

TE11, TU42

L4BV(+)

TP2, TP24

PP10, B5

Transport category (RID) 2

Colis express (express

parcels) (RID)

CE6

Hazard identification number 80

(RID)

14.7 Transport in bulk Not

according to Annex II of Marpol and the IBC Code

Not applicable.

Section 15 Regulatory information

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



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mixture

Designation according to EC guidelines:

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on

persistent organic pollutants

Seveso III Part I Qualifying quantity (tonnes)

100

(Categories of dangerous

substances)

Lower-tier Upper-tier

200

E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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.

Full text of H- and EUH-statemements

Acute Tox. 4 (Oral)	Acute toxicity ((oral), Category 4

Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category

1

Eye Dam. 1 Serious eye damage/eye irritation, Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

Met. Corr. 1 Corrosive to metals, Category 1
Skin Corr. 1 Skin corrosion/irritation, Category 1

Skin Corr. 1A Skin corrosion/irritation, Category 1, Sub-Category 1A

Skin Irrit. 2 Skin corrosion/irritation, Category 2

STOT SE 3 Specific target organ toxicity — Single exposure, Category 3,

Respiratory tract irritation

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.



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H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.