

MATERIAL SAFETY DATA SHEET

Based on Commission Regulation (EU) No 2020/878 of 18 June 2020.

SECTION 1: Identification substances/mixtures and company identification

Date creation 20/01/2025

Version: 3.0

1.1. Identifier product:

DESCALING

UFI: QR70-G0SN-Y00M- CQUV

1.2. Important Identified Applications substances or mixtures and Applications Identified uses
advised against : Descaling and cleaning of equipment

Applications not recommended : NO specified.

1.3. Data regarding card providers characteristics

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1.4. Number phone emergency

number 112 – emergency

number

SECTION 2: Identification threats

2.1. Classification of the substance or mixture

Skin Irrit2 H315 Action irritating on **Eye skin Irrit.**

2 H319 Action irritating on Eyes

2.2. Elements markings



Password warning: **Attention**

Returns indicating type threats:

H319 - Works irritatingly on eyes.

H315 - Works irritatingly on skin

Returns indicating means precautions:

P102 - Protect Before children.

P305 + P351 + P338 IN CASE OF RECEIPT IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - IN case maintaining the action is taking place irritating on the eyes: To inquire advice/report under the care of a doctor.

P302+P352 - IN by the way contact That skin.Wash with plenty of quantity water With soap.

P280 -Use gloves protective /clothes protective eyes/protection face.

P501- Contents/Container removeto container on waste according With national I will prescribe **and**

EUH 208 - Contains a mixture 5-chloro-2-methyl-4-isothiazolin-3-one [No. IN 247-500-7] and 2-methyl-4- isothiazolin-3-one [No. IN 220-239-6] (3:1). Maybe to cause speech reaction allergic.

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Detergent content according to Regulation 648/2004/EC:

Ingredients: Methylchloroisothiazolinone, Methylisothiazolinone. Sulfamic acid, 2-hydroxypropanetricarboxylic acid

2.3. Other hazards

The substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII – no

The substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XII – not applicable

The mixture does not contain any substances of very high concern (SVHC) on the list published by the European Chemicals Agency (ECHA) in accordance with Article 57 of the REACH Regulation <http://echa.eu/pl/candidate.list-table>.

Other hazards not reflected in the classification – unknown

SECTION 3: Composition/information about ingredients

3.1. Substances: NO refers to

3.2. Mixtures:

Substance	No. CAS	No. IN	Number index/ Registration No.	% wt.	Classification Reg.1272/200
Acid amidosulfonic acid	5329-14-6	226-218-8	016-026-00-0 01-2119488633- 28-- xxxx	10--15	Skin Irrit.2,H315 Eye Irrit.2,H319 Aquatic Chronic.3,H412
Hydroxypropanetricarboxylic acid -1,2,3	77-92-9	201-069-1	01-2119457026- 42- xxxxxx	2.5- <10	Eye Irrit.2,H319 STOT SE 3 H335
2-Bromo-2-nitropropane-1,3- diol	52-51-7	200-143-0	603-085-00-8 01-2119980938-15- xxxxxx	<0.015	Acute Tox. 4 H302 Acute Tox. 4 H312 Skin Irrit. 2; H315 Eye I will give. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400
mixture 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247- 500-7] and 2-methyl-4- isothiazolin-3- one [No. IN 220-239-6] (3:1)	55965-84-9	-	613-167-00-5 -	<0.0015	Acute Tox. 3 H301 Acute Tox. 2 H310 Acute Tox. 2 H330 Skin Corr. 1B H314 Skin Sens.A 1 H317 Eye Dam. 1, H318 Aquatic Acute 1 H400 Aquatic Protect 1; H410, M=10

Specific concentrations borderline

mixture 5-chloro-2-methyl-4-isothiazolin-3-one [No. IN 247-500-7] and 2-methyl-4-isothiazolin-3-one [No. WE 220-239-6] (3:1) (CAS No. 55965-84-9)

Eye Dam. 1: C ≥ 0.6 %

Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %

Skin Corr. 1C: C ≥ 0.6 %

Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %

Skin Sense. 1A: C ≥ 0.0015 %

The full text of H phrases and acronyms of symbols, hazard classes and category codes are given in Section 16. Safety data sheets

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SECTION 4: Means first aid

4.1. Description means first Help:

Comments general : It is necessary observe comments regarding safety and use, which are posted on label. By speech symptoms or In now doubts to inquire advice doctor. **Inhalation** - In the conditions Normal danger NO exists. IN now occurrences symptoms poisoning should be lead out the injured party That zones exposure and to ensure him access fresh air.

Contact with eyes - Rinse big quantity pure water By 15 minutes maintaining eyelids Open. If redness, pain and visual disturbances, it is necessary consult an ophthalmologist.

Skin contact - remove the whole contaminated clothing Contaminated skin wash off water With soap. If disturbing symptoms occur contact your doctor.

Ingestion - Rinse mouth water. NO to evoke vomiting. Nothing NO to serve to the person unconscious. Contact a doctor.

4.2 The most important thing spicy and delayed symptoms and consequences exposure:

Potential spicy action on health

Contact With eyes : feeling baking, redness , tearing, sensitivity on light

Contact That skin : That's possible irritation

Ingestion : Ingestion may cause nausea, vomiting, abdominal pain , irritation of the mucous membranes of the mouth, throat, esophagus and digestive tract, breathing problems.

Inhalation : Not applicable

4.3 Indications regarding any immediate medical assistance and special treatment for the injured party

Treatment symptomatic.

SECTION 5: Firefighting measures

5.1. Means fire extinguishing

Appropriate means fire extinguishing: Foam, dioxide coal or powders fire extinguishing. Containers exposed for action fire cool scattered stream water.

Inappropriate means fire extinguishing: No use compact streams water

5.2. Special threats related With substance or mixture

Threats That pages substances or mixtures: Water polluted this one substance has to be collected and secured so that got through to systems water, streams and manholes.

Dangerous products combustion: Product non-flammable.under influence high temperatures toxic gases are produced: nitrogen oxides, sulfur dioxide

5.3. Information For guard fire brigade

Special security measures for guards Fire Department : Quickly isolate the area by removing all people With the nearest the area accident, if exploded fire. NO you should to undertake no action, which would create risk for anyone I guess, That Is suitably trained.

Special protective equipment for firefighters : Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full facepiece operating in positive pressure mode. Basic protection during chemical incidents is provided by firefighter clothing (including helmets, safety boots and gloves) complying with European Standard EN 469

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personnel

Evacuate surrounding areas. Provide adequate ventilation. Wear an appropriate mask if ventilation is insufficient. Wear appropriate personal protective equipment.

6.1.2. For emergency responders:

If special clothing is required for product disposal, refer to Section 8 regarding suitable and unsuitable materials. See also information in the section "For non-emergency personnel."

6.2. Environmental precautions

Prevent spreading and entry into sewers, ditches and rivers.

6.3. Methods and materials for containment and cleaning up: Place the collected product in closed containers, observing precautions, and dispose of it in accordance with local regulations.

6.4. Reference to other sections

Emergency contact information is provided in Section 1.

Information on appropriate personal protective equipment is provided in Section 8. Information on additional waste treatment is provided in Section 13.

SECTION 7: Handling and storage of substances and mixtures

7.1. Means precautions regarding safe proceedings

7.1.1. During use and storage, observe generally applicable safety regulations and hygiene work. To avoid release down environment.

7.1.2. NO eat, NO drink and NO burn In time use. Wash hands while breaks and after finished work.

7.2. Conditions for safe storage, including information on any mutual incompatibilities

Store in original packaging, in covered, dry rooms, at a temperature between 5.0-20.0°C. Protect from direct sunlight. Do not store together with foodstuffs. Protect before freezing.

7.3. Specific end use(s): None known.

SECTION 8: Exposure controls/personal protection

8.1. Parameters regarding control

Ordinance Minister Families, Work and Politics Social With day 12 June 2018 r. In on the matter maximum allowable concentrations and intensities factors harmful For health In environment work (Journal of Laws 2018 pos. 1286).

DNEL (Employees):

Component	No. CAS		Short exposure		Long exposure	
			Systematic	Local	Systematic	Local Acid amidosulfonic acid
Amidosulfonic acid	5329-14-6	Oral	-	-	Lack data	-
		Skin	-	-	10mg/kg b.c./d	-
		exhaust	-	-	Lack data	-

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Component t DNEI (Populacji):	No. CAS	Short exposure		Long exposure	
		Systematic	Local	Systematic	Local
Amidosulfonic acid	5329-14-6	Oral	-	Lack data	-
		Skin	-	Lack data	-
		exhaust	-	5mg/kg b.c/d	-

Component	No. CAS				
Amidosulfonic acid	5229-14-6	Sewage treatment plant sewage	2mg//	Water sweet	0.048mg/l
		Soils	0.00638mg/kg	Water marine	0.0048mg/l
		Occasional		Precipitate (Waters sweet)	0.173mg/kg
		Oral		Precipitate (Waters sea)	0.0173mg/kg

8.2. Exposure controls:

8.2.1. Appropriate engineering controls:

General room ventilation.

8.2.2. Individual protection measures, such as personal protective equipment (PPE)

Not required under normal circumstances. Wash hands after work. Do not eat, drink, or smoke.

a) Eye and face protection: Wear protective goggles when using the product.

b) Skin protection:

- Hand protection: Wear protective gloves when using the product.

- Other

c) Respiratory protection: Not required under normal conditions.

d) Thermal hazards: Not applicable

8.2.3. Environmental exposure controls

Avoid release to the environment..

SECTION 9: Properties physical and chemical

9.1. Information on topic basic properties physical and chemical

a) Condition concentrations: liquid

b) Color: colorless

c) Smell: natural ,characteristic For used raw materials

d) Temperature melting/solidifying: NO refers to

e) Temperature boiling or initial boiling point and range temperatures boiling: not applicable

f) Combustibility materials: NO refers to

g) Lower and upper limit explosiveness: NO refers to

h) Temperature ignition: NO refers to

i) Temperature self-ignition: NO refers to

j) Temperature decomposition: NO refers to

k) pH 1% r-ru: 2- 3

l) Viscosity kinematic: NO refers to

m) Solubility: in the water

n) Factor division n-octanol/water (value coefficient log): NO refers to

o) Resilience pairs: NO refers to

p) Density or density relative: 1.05+/-0.02 g/ cm³

q) Relative density pairs: NO refers to

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r) Characteristic particles: NO refers to

9.2. Other information

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No other data available

SECTION 10: Stability and reactivity

10.1. Reactivity – No experimental data on the reactivity of the product or its ingredients.

10.2. Stability chemical - Product stable In Normal conditions storage and application.

10.3. Possibility occurrence dangerous reaction - IN Normal conditions storage and application dangerous reactions NO occur. NO mix With strong rules and oxidants

10.4. Conditions, which you should to avoid - IN during storage to avoid temperatures exceeding beyond the range given in section 7.2. Under normal conditions of use and storage, hazardous reactions will not occur.

10.5. Incompatible materials – light metals, oxidizing agents, alkalis, amides, ammonia, organic anhydrides, isocyanates, alkylene oxides, alkanolamines, epichlorohydrin. Do not mix with household chemical products.

10.6. Dangerous products decomposition - For the preparation - NO it decomposes, If Is applied according with destiny.

SECTION 11: Toxicological information

11.1. Information on topic classes threats defined In regulation (IN) No. 1272/2008 For substances

Substance	CAS	Dose	Value	Unit
Sulfamic acid	5329-14-6	LD50 – orally (rat) LD50 – skin	3160 No data	mg/kg
Substance	CAS	Dose	Value	Unit
2-hydroxypropane tricarboxylic acid 1,2,3	77-92-9	LD50 orally (mouse)	5400	mg/kg

a) toxicity sharp;

IN based about accessible data regarding substances product NO meets criteria classification.

b) action corrosive/irritating on skin;

Works irritatingly on I'm sorry

c) serious damage eyes/action irritating on eyes; works irritatingly on Eyes.

d) action Allergenic on Dear respiratory or skin;

IN based about accessible data regarding substances product NO meets criteria classification.

e) action mutagenic on cells reproductive;

IN based about accessible data regarding substances product NO meets criteria classification.

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f) carcinogenic effect;

Based on available data on the substance, the product does not meet the classification criteria..

g) reproductive toxicity;

Based on available data on the substance, the product does not meet the classification criteria..

h) target organ toxicity – single exposure;

Based on available data on the substance, the product does not meet the classification criteria..

i) specific target organ toxicity – repeated exposure;

Based on available data on the substance, the product does not meet the classification criteria..

j) aspiration hazard..

Based on available data on the substance, the product does not meet the classification criteria..

11.2. Information about other threats

11.2.1. Endocrine disrupting properties: Not applicable

11.2.2. Other

information:

Not applicable

SECTION 12: Ecological information

12.1. Toxicity

For mixtures: lack data For substances:

Component	No. CAS	Dose	Value	Unit
Acid amidosulfonic acid	5329-14-6	EU10 For bacteria	>1000	mg/l(16h)
		LC50 - For fish (Pimephales promelas)	70.3	mg/l(96h)

Component	CAS No.	Dose	Value	Unit
2-Hydroxypropan otricarboxylic acid 1,2,3	77-92-9	LC50-(Daphnia Magna)	1535	mg/l(24h)
		LC50(fish)	440	mg/l(48h)

12.2. Durability and capacity down decomposition

The surfactants contained in the mixture comply with the biodegradability criteria included In regulation (IN) No. 648/2004 regarding detergents. Data obtained from the safety data sheets of the ingredients of the mixture. The data confirming this fact are at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of the detergent manufacturer

12.3. Bioaccumulative potential No data available

12.4. Mobility In soil No data

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12.5. Results of PBT and vPvB assessment

This substance/mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or greater.

12.6. Endocrine disrupting properties

This substance does not contain components with endocrine disrupting properties as defined in RECH Article 57(f) of Commission Delegated Regulation (EC) 2017/2100 or Commission Delegated Regulation (EU) 20218/606 at levels of 0.1% or greater.

12.7. Other adverse effects: No data available.

SECTION 13: Waste management

13.1. Methods disposal waste:

Follow according With regulations laws in force on given area. Exactly emptied product packaging is subject to the municipal waste collection system.

Base legal:

Law community: Directive 2008/98/EC, 2014/955/EU, Ordinance Commission (EU) No. 1357/2014

Law national: Act With day 14 December 2012 about waste (Journal of Laws 2013 item 21) Act With day 13 June 2013 about economy packaging and waste packaging (Journal of Laws 2013 pos. 888)

SECTION 14: Transport information

According With requirements ADR and RID:

14.1 Number UN or index no. ID:

14.2 Correct name transport UN: Not applicable

14.3 Transport hazard class(es): Not applicable

14.4 Group packaging: Not applicable

14.5 Threats For Environment

Product NO constitutes threats For Environment according With criteria included In UN Model Regulations

14.6. Special means precautions For users

Transport within the user's premises: required Always transport in closed containers that are upright. Make sure that people transporting the product know what to do in case of spillage.

14.7. Transport loose according With Attachment lido convention MARPOL and by code IBC Not applicable

SECTION 15: Regulatory Information

15.1. Recipes legal regarding security, health and protection Environment specific For substance or mixture
- Act With day 25 February 2011 r. about substances chemical and their mixtures. (Journal of Laws 2011, No. 63, pos. 322.) with subsequent amendments.

- Ordinance (IN) No. 1907/2006 Parliament European and Advice With day 18 December 2006 r. In on the matter

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Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 14/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. - Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353, 31 December 2008) as amended. - Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014

- Act of 14 December 2012 on waste (Journal of Laws 2013, item 21)

- Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws 2013, item 888)

- Regulation of the Minister of Labour and Social Policy of 29 November 2002 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2002, No. 217, item 1833, as amended).

15.2. Ocena bezpieczeństwa chemicznego

Dostawca nie dokonał oceny bezpieczeństwa chemicznego mieszaniny.

SECTION 16: Other information

Returns H:

H225 - Highly flammable liquid and vapour.

H301 - Toxic if swallowed. **H302** - Harmful if swallowed. **H310** - He is threatening death in contact That skin.

H312 - Works harmful In contact That skin.

H314 - Causes serious burns skin and damage eyes.

H315 - Works irritatingly on skin.

H317 - Maybe to cause reaction allergic skin.

H318 - Causes serious damage eyes.

H319 - Works irritatingly on Eyes.

H330 - Inhalation is threatening death.

H335 - Maybe to cause irritation roads respiratory. **H336** - Maybe to evoke feeling drowsiness or dizziness heads. **H400** - Very toxic to aquatic life .

H410 - Works Very toxic on organisms water, causing long lasting consequences

H411 - Works toxic on organisms water, causing long term effects.

H412 - Works harmful on organisms water, causing long lasting consequences.

Tips training

Before using get acquainted myself With card characteristics

Explanation abbreviations and acronyms used In card CAS (Chemical Abstracts Service) **characteristics**

Number IN means one With three numbers listed below :

- number assigned substances In European List Existing Substance about Commercially Significant (EINECS)
- number assigned to a substance In European Leaves of Substance Notified (Elincs)
- number In on the list substances chemical listed In publications Commission European "No-longer polymers"

NDS - the highest acceptable concentrations substances harmful For health In environment work

NDSch - the highest acceptable concentration momentary

NDSP - the highest acceptable concentration ceiling

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UN Number - Material Identification Number (UN Number, UN Number)

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

Other information sources

IUCLID International Uniform Chemical Information Database

ESIS European Chemical Substances Information System Other information

Update: changes in sections: 2, 12

Data for registered substances: <http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

The information contained in the safety data sheet is intended to describe the product solely from a safety perspective. The user is responsible for ensuring safe use of the product and assumes liability for any consequences resulting from improper use of this product.