

Revision nr.16 Dated 08/06/2023 Printed on 08/06/2023 Page n. 1 / 14

Replaced revision:15 (Dated 29/12/2022)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name SANITER 420

UFI: QJP0-C0X4-R005-3DJK

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

Intended use Biocide for Industrial Water

Identified Uses Industrial Professional Consumer
Additive for biocidal effect
Uses Advised Against
Any use non-professional
Any use not included among those recommended

1.3. Details of the supplier of the safety data sheet

Name N.C.R. BIOCHEMICAL S.p.A.

Full address Via dei Carpentieri, 8-Zona Industriale il Prato

District and Country 40050 Castello d'Argile (BO)

Italia

Tel. +39 051 6869611 Lun-Ven 8.30-13.00/14.00-16.30

Fax +39 051 6869617

e-mail address of the competent person
responsible for the Safety Data Sheet regulatory@ncr-biochemical.com

1.4. Emergency telephone number

For urgent inquiries refer to Italy:

CAV Ospedale Niguarda Ca' Granda - Milano 02 66101029

CAV Azienda Ospedaliera Papa Giovanni XXII - Bergamo 800 883300 CAV Centro Nazionale di Informazione Tossicologica - Pavia 0382 24444

CAV Az. Osp. Careggi - Firenze 055 7947819 CAV Policlinico Gemelli - Roma 06 3054343 CAV Policlinico Umberto I - Roma 06 49978000

CAV Osp. Pediatrico Bambino Gesù - Roma 06 68593726

CAV Az. Osp. Cardarelli - Napoli 081 7472870 CAV Az. Osp. Univ. Foggia - Foggia 800183459

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

H332	Harmful if inhaled.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
	H302 H314 H318 H317 H400



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SECTION 2. Hazards identification .../>>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Precautionary statements:

Avoid breathing dust, fume, gas, mist, vapours, spray. P261

P273 Avoid release to the environment.

Wear protective gloves/ protective clothing / eye protection / face protection. P280

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 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/doctor. P310

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H Contains:

-isothiazol-3-one [EC no. 220-239-6] (3:1)

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

Sodium nitrate

INDEX Ox. Sol. 3 H272, Eye Irrit. 2 H319 $1 \le x < 10$

EC 231-554-3 7631-99-4 CAS

REACH Reg. 01-2119488221-41-XXXX



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SECTION 3. Composition/information on ingredients/>>

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6]

(3:1)INDEX

CAS

613-167-00-5 $1 \le x < 2.5$ Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C

H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100,

Aquatic Chronic 1 H410 M=100, EUH071

EC 911-418-6 Skin Corr. 1C H314: ≥ 0.6%, Skin Irrit. 2 H315: ≥ 0.06%, Skin Sens. 1A H317:

≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06% STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, LC50 Inhalation

mists/powders: 0,33 mg/l/4h

EXEMPTED - Art. 15 (2) of REACH regulation REACH Reg.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

55965-84-9

4.1. Description of first aid measures

Eyes: Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening your eyelids well. Consult a physician immediately.

Skin: Remove contaminated clothing. Immediately take the shower. Consult a physician immediately.

Ingestion: Consult a physician immediately. Do not induce vomiting unless specifically authorized by your doctor.

Inhalation: Call a physician immediately. Bring the subject outdoors, away from the scene. If breathing ceases, practice artificial respiration.

Take appropriate precautions for the rescuer.

4.2. Most important symptoms and effects, both acute and delayed

Other relevant symptoms / effects are described in Section 11: Toxicological Information and refer to the finished product or its components.

4.3. Indication of any immediate medical attention and special treatment needed

The product is corrosive. It is not advisable to cause vomiting. Possible mucosal damage makes the use of gastric lavage contraindicated. Always refer to the instructions of a competent physician. Measures can be taken against circulatory shocks and convulsions.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable respirator, approved CEN or equivalent (fitted with a cartridge for organic vapor / acid gases and dust / aerosol filter) during cleaning and disinfection of this material. The material is CORROSIVE. During decontamination and cleaning procedures of this product, wear protective clothing including spray goggles, full length nitrile and butyl rubber gloves, rubber apron or butyl or nitrile rubber clothing and rubber overcapacity. If the material comes into contact with the skin during cleaning, immediately remove contaminated clothing and wash contaminated areas with soap and water. See section 4 - First-aid interventions for more information.



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SECTION 6. Accidental release measures/>>

6.2. Environmental precautions

Do not contaminate the water supply with the material. Do not discharge the product into sewers.

6.3. Methods and material for containment and cleaning up

Keep leakages and residues of cleaning products away from public watercourses and sewers. Absorb leak with absorbent pads or inert solid material such as clay or vermiculite and transfer contaminated materials into a suitable container for disposal. Decontaminate the area of the leak with a solution prepared at the moment to 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply the solution to the leak area to a ratio of 10 volumes of decompression solution for the estimated residual volume volume to disable any remaining residual amount of active principle. Leave to work for 30 minutes. Rinse the area of the leak with abundant amounts of water and convey it to a water treatment plant, observing the current legislation. DO NOT add the decontaminant solution to the waste container to disable the absorbed material. See Section 13 - Disposal considerations, for information regarding the disposal of materials used to contain leaks.

6.4. Reference to other sections

References to other sections, if applicable, have been provided in the preceding subsections.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

This material is corrosive. See Section 8 for Personal Protective Equipment. Do not handle the material near food, feed or drinking water.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a well-ventilated place. The product, as supplied, may slowly develop gases (predominantly carbon dioxide). To prevent pressure buildup, the product is packaged in specially designed breather containers, where necessary. When not in use, the product must be kept in the original container. The container must be stored and transported vertically to prevent the contents coming out of the vent where it is placed. Do not store this product in containers of the following material: steel. Do not store the material near food, feed or drinking water. Empty containers may be hazardous. Since product residues remain in empty containers, carefully follow the safety data sheet and label warnings even after emptying.

Storage temperature: 1 - 55 ° C.

Storage class TRGS 510 (Germany): 8B

7.3. Specific end use(s)

Refer to the product data sheet and the instructions of the technicians who propose it for treatment.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits are listed below when they exist.

Regulatory References:

DEU Deutschland Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und

Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung

gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56



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SECTION 8. Exposure controls/personal protection

Sodium nitrate					
Predicted no-effect concentration - PNEC					
Normal value in fresh water	0,45	mg/l			
Normal value in marine water	0,045	mg/l			
Normal value for water, intermittent release	4,5	mg/l			
Normal value of STP microorganisms	18	mg/l			

Health - Derived no-effect level - DNEL / DME	L
Effects on consumers	

eaith - Derived no-eil		n consumers			Effects on w	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		VND		12,5 mg/kg bw/d				
Inhalation		VND	VND	10,9 mg/m3	VND	VND	VND	36,7 mg/m3
Skin		VND	VND	12,5 mg/kg bw/d	VND	VND	VND	20,8 mg/kg
								hw/d

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC

no. 220-239-6] (3:1)

IIII esilolu Liii	iii vaiue					
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	0,2		0,4		INHAL

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available : NEA = no exposure expected : NPI = no hazard identified : LOW = low

hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

Control Systems Engineering: Use only in areas provided with appropriate ventilation systems.

Protective equipment: The premises for storage or use of this material must be equipped with lavaoffs and emergency shower. Individual protection measures

Eye / face protection: Eye protection: Use anti-splash goggles and facial mask (EN166). Eye protection must be compatible with the system used for the protection of the respiratory tract.

Skin and Hand Protection: When handling this material, wear chemical resistant gloves. The gloves listed below protect against permeability (gloves of other chemical-resistant materials may not provide adequate protection): butyl rubber Nitrile rubber PVC gloves with thickness <1 mm Remove and replace gloves immediately as signs of wear or tear of the substance chemistry. Wash and remove gloves immediately after use. Wash hands with soap and water. NOTE: Material is a possible skin sensitizer.

Other Protective Equipment: Properly Wear: Chemical resistant apron complete with chemical resistant protection.

Respiratory protection: Typical use of this material does not produce workplace exposures that exceed the exposure limits listed in the Exposure Control section. In case of special conditions in which the exposure limits are exceeded, follow a respiratory protection program compliant with the requirements of Directive 89/686 / EEC and EN133 and 134. For concentrations up to 10 times the exposure limits, Wear a CEN or equivalent respirator, complete with a full face cover (EN136) or half mask (EN140), fitted with CEN or equivalent approvals for the protection of organs vapor (EN 14387) and dust / aerosol filters (EN143). In the presence of oily aerosols, combine with the use of dust / aerosol filters FFP3 (EN143). In case of unlikely situations where the exposure exceeds the listed exposure limits (ie greater than 10 times), or in any emergency situations, wear appropriate self-contained breathing apparatus, approved CEN or equivalent, at pressure or a respirator with mask Full face with positive pressure air demand and with emergency device. See Section 6, Accidental Release Measures, Respiratory Requirements and Protective Clothing to be used for cleaning and decontamination of spills in this material.

See Section 7: Handling and Storage and Section 13: Disposal Considerations for Preventive Environmental Exposure Measures During Use and Waste Disposal.

ENVIRONMENTAL EXPOSURE CONTROLS

Environmental exposure controls

Colour

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information Appearance liauid

light yellow

@EPY 11.5.1 - SDS 1004.14



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SECTION 9. Physical and chemical properties

Odour Melting point / freezing point

Initial boiling point Flammability Lower explosive limit Upper explosive limit

Flash point Auto-ignition temperature Decomposition temperature

Kinematic viscosity

Solubility

Partition coefficient: n-octanol/water

Vapour pressure

Density and/or relative density

Relative vapour density

Particle characteristics

pungent not available 100 not flammable not applicable not applicable 93

not determined 55-60°C°C $2.0 \div 4.0$ 3,000 mm2/s soluble in water 0,401

2333,14Pa @ 20°C 0,99 ÷ 1,05 g/ml

1,00

not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Evaporation rate

Explosive properties not applicable because it does not contain any explosives

functional groups

Oxidising properties the product is not oxidizing

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid storing the product or reaching temperatures above 55 ° C. These temperatures can cause product degradation.

None in particular. However the usual precautions used for chemical products should be respected.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) Avoid exposure to: high temperatures, heat, light, UV rays.

10.5. Incompatible materials

Avoid contact with the following substances: oxidizing agents, amines, reducing agents and mercaptans.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx), Sulfur oxides, hydrochloric acid.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) In decomposition develops: sulphur oxides,nitric oxide,carbon dioxide,carbon monoxide,metal oxides.



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SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

The most likely routes of exposure are the skin route and the respiratory tract.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Excessive exposure may cause irritation to the upper respiratory tract (nose and throat).

Interactive effects

Information not available

ACUTE TOXICITY

Acute oral toxicity:

DL50, Female Rat, 3310 mg / kg

DL50, Male Rat,> 5000 mg / kg

Acute dermal toxicity:

DL50, rabbit,> 5000 mg / kg

Acute toxicity by inhalation:

CL50, Rat, 4h, dust/mist > 5 mg / I estimated.

The data shown below refer to calculations made by the software and do not conflict with the data just presented, which derive from tests carried out on the mixture.

ATE (Inhalation - mists / powders) of the mixture: 2.0 ma/l ATE (Oral) of the mixture: >2000 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

Corrosive to the respiratory tract.

Sodium nitrate

LD50 (Dermal): > 5000 mg/kg Rat, according to OECD Guideline 402, reliability 2 LD50 (Oral): > 2000 mg/kg Rat, according to OECD Guideline 425, reliability 2

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6]

STA (Dermal): 50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Oral): 100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LC50 (Inhalation mists/powders): 0,33 mg/l/4h Rat, dust/mist

at the concentration of 14%

Sodium nitrate

The LC50 value by inhalation has not been determined.

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization



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SECTION 11. Toxicological information .../>>

No significant data was detected.

Skin sensitization

The product causes sensitization.

GERM CELL MUTAGENICITY

The active ingredient is non-mutagenic.

Does not meet the classification criteria for this hazard class

Sodium nitrate

In vitro genetic toxicity studies have yielded negative results in some cases and positive in others. The results of animal genetic toxicity tests failed.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

In vitro assays did not show mutagenic effects. In vivo assays did not show mutagenic effects.

CARCINOGENICITY

The active ingredient is not carcinogenic in either a mammalian or mouse cancer-carcinogenic study of rats.

Does not meet the classification criteria for this hazard class

Sodium nitrate

It contains materials that may react and form a nitrosamine. Some nitrosamines have been shown to be carcinogenic in laboratory animals.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3-1)

It did not cause tumors in tested animals.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

This product is not dangerous for reproduction.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

In studies on animals it does not interfere with reproduction.

Adverse effects on development of the offspring

The active substance did not show teratogenic effects in animal experiments.

Sodium nitrate

It did not cause birth defects or any other effect on the fetus in laboratory animals.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

It has not caused birth defects or other effects in the fetus even at doses that have caused toxic effects on the mother.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Product test data not available. Refer to component data.

Sodium nitrate

The evaluation of available data suggests that this material is not a toxic substance STOT-SE.



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SECTION 11. Toxicological information .../>>

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

The evaluation of available data suggests that this material is not a toxic substance STOT-SE.

STOT - REPEATED EXPOSURE

Product test data not available. Refer to component data.

Does not meet the classification criteria for this hazard class

Sodium nitrate

Symptoms for humans may include: May cause central nervous system depression, resulting in drowsiness and dizziness, headache, incoordination, low blood pressure. It can cause methoglobinemia, thus reducing the blood's ability to carry oxygen.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Excessive exposure may cause irritation of the upper respiratory tract (nose and throat).

Target organs

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Nose and throat.

ASPIRATION HAZARD

Product test data not available. Refer to component data.

Does not meet the classification criteria for this hazard class

Sodium nitrate

On the basis of physical properties, it is unlikely that it represents an aspiration hazard.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3-1)

Aspiration into the lungs can occur during ingestion or vomiting, causing damage to the tissues or lungs themselves.

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Sodium nitrate

Toxicity to bacteria:

EC50 (3 h) > 1000 mg/l, OECD TG 209.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

LC50 - for Fish

0,19 mg/l/96h Oncorrhynchus mykiss, flow-through, according to OECD Guideline

203 or equivalent

EC50 - for Crustacea

0,16 mg/l/48h Daphnia magna, flow-through, according to OECD Guideline 202 or $\,$

equivalent

EC50 - for Algae / Aquatic Plants

0,027 mg/l/72h Pseudokirchneriella subcapitata, according to OECD Guideline 201

or equivalent

Chronic NOEC for Fish Chronic NOEC for Crustacea 0,05 mg/l Oncorhynchus mykiss, 14d 0.1 mg/l Daphnia magna, flow-through, 21d

Chronic NOEC for Algae / Aquatic Plants

0,0014 mg/l Skeletonema costatum, static, 72h, growth rate

Sodium nitrate

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

4650 mg/l/96h Oncorhynchus mykiss, static

8609 mg/l/24h Daphnia magna, static, OECD TG 202, reliability 2

> 1700 mg/l/10d Benthic diatoms, no guideline followed, pubblication on Marine

Biology 43:307-315, reliability 2



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SECTION 12. Ecological information .../>

Chronic NOEC for Fish

157 mg/l Pimephales promelas, according to Annual Book of ASTM Standards, Vol 11.05, reliability 2

12.2. Persistence and degradability

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) Entirely degradable <50%, 10d OECD Test, but considered rapidly degradable. photodegradation

0,38-1,3d

Sodium nitrate

Degradability: information not available

12.3. Bioaccumulative potential

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Partition coefficient: n-octanol/water

0.401

12.4. Mobility in soil

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Partition coefficient: soil/water

28 estimated

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Dispose of as special waste according to local and national regulations.

The correct attribution of both the CER group and the CER code to this product depends on the use made of it. Contact your authorized waste disposal service.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 3265

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture containing 5-Chloro-2-methyl-2H-isothiazol-3-one and

2-Methyl-2H-isothiazol-3-one (3:1))

IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture containing 5-Chloro-2-methyl-2H-isothiazol-3-one and

2-Methyl-2H-isothiazol-3-one (3:1))

IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture containing 5-Chloro-2-methyl-2H-isothiazol-3-one and

2-Methyl-2H-isothiazol-3-one (3:1))



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14.3. Transport hazard class(es)

ADR / RID: Class: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80 Limited Quantities: 1 L Tunnel restriction code: (E)

Special provision: 274
IMDG: EMS: F-A, S-B Limited Quantities: 1 L

Label: 8

IATA: Cargo: Maximum quantity: 30 L Packaging instructions: 855

Special provision: A3, A803

Passengers: Maximum quantity: 1 L Packaging instructions: 851

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3
Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor

The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None



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Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters

Other legislation:

REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Ox. Sol. 3 Oxidising solid, category 3 Acute Tox. 2 Acute toxicity, category 2 Acute Tox. 3 Acute toxicity, category 3 Acute Tox. 4 Acute toxicity, category 4 Skin Corr. 1C Skin corrosion, category 1C Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Sens. 1 Skin sensitization, category 1 Skin Sens. 1A Skin sensitization, category 1A

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1

H272 May intensify fire; oxidiser. H310 Fatal in contact with skin. H330 Fatal if inhaled H301 Toxic if swallowed.

Harmful if swallowed or if inhaled. H302+H332

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation. May cause an allergic skin reaction. H317

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410

EUH071 Corrosive to the respiratory tract.

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization



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SECTION 16. Other information

- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:



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