

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 16-Mar-2023 Revision Number 3.2

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

1.1. Product identifier

USA

Product Name BioPlex 2200 Anti-CCP Calibrator set

Catalogue Number(s) 6633200

Pure substance/mixture Mixture

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone

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

Recommended use In vitro diagnostic

Restricted to professional users

Use according to package label instructions

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Corporate HeadquartersManufacturerBio-Rad Laboratories Inc.Bio-Rad Laboratories1000 Alfred Nobel Drive6565-185th Ave NEHercules, CA 94547Redmond, WA 98052

USA

Legal Entity / Contact Address

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South Africa: cdg_techsupport_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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| Skin sensitisation | Category 1A - (H317) |
|--------------------------|----------------------|
| Chronic aquatic toxicity | Category 3 - (H412) |

2.2. Label elements

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone



Signal word Warning

Hazard statements

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

EUH210 - Safety data sheet available on request

Precautionary Statements - EU (§28, 1272/2008)

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

2.3. Other hazards

Harmful to aquatic life.

Contains human source material and / or potentially infectious components

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Component | Description |
|-----------|---|
| CAL | Six (6) 0.5 mL Anti-CCP calibrator vials. The calibrators are provided in a human serum matrix made |
| | from defibrinated plasma with added known analyte concentrations derived from human disease state |
| | plasma, with protein stabilizers (bovine) and added preservatives includ⁻ing ≤ 0.3% ProClin 300, < 0.1% |
| | sodium azide and ≤ 0.1% sodium benzoate |

| Chemical name | Weight-% | REACH registration | EC No (EU | Classification according | Specific | M-Factor | M-Factor |
|-----------------|------------|--------------------|-----------|--------------------------|---------------|----------|-------------|
| | | number | Index No) | to Regulation (EC) No. | concentration | | (long-term) |
| | | | | 1272/2008 [CLP] | limit (SCL) | | |
| Sodium chloride | 0.3 - 0.99 | No data available | 231-598-3 | No data available | - | - | - |
| 7647-14-5 | | | | | | | |
| Sodium benzoate | 0.1 - | No data available | 208-534-8 | No data available | - | - | - |
| 532-32-1 | 0.299 | | | | | | |
| Sodium azide | 0.01 - | No data available | 247-852-1 | Acute Tox. 2 (H300) | - | - | - |
| 26628-22-8 | 0.099 | | | Acute Tox. 1 (H310) | | | |
| | | | | (EUH032) | | | |
| | | | | Aquatic Acute 1 (H400) | | | |
| | | | | Aquatic Chronic 1 | | | |
| | | | | · (H410) | | | |

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| Citric acid 77-92-9 | 0.01 - 0.099 | No data available | 201-069-1 | Eye Irrit. 2 (H319) | - | - | - |
|--|-----------------|-------------------|-----------|--|---|---|-----|
| 5-Chloro-2-methyl-3 (2H)-isothiazolone, mixture with 2-methyl-3(2H)-isoth iazolone 55965-84-9 | 0.01 | No data available | - | Acute Tox. 3 (H331) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) | C>=0.6% Skin Irrit. 2 :: 0.06%<=C<0.6 | | 100 |

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--|-----------------|-------------------|--|---|---|
| Sodium chloride 7647-14-5 | 3000 | 10000 | No data available | No data available | No data available |
| Sodium benzoate 532-32-1 | 4070 | No data available | No data available | No data available | No data available |
| Sodium azide 26628-22-8 | 27 | 20 | No data available | No data available | No data available |
| Citric acid 77-92-9 | 3000 | 2000 | No data available | No data available | No data available |
| 5-Chloro-2-methyl-3(2H)-i sothiazolone, mixture with 2-methyl-3(2H)-isothiazol | | 87.12 | No data available | No data available | No data available |
| one 55965-84-9 | | | | | |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Call a doctor. Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes.

Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a doctor.

Ingestion Call a doctor. Contains human source material and / or potentially infectious components.

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

Symptoms Itching. Rashes. Hives.

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

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically. Contains human

source material and / or potentially infectious components.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Do not allow into any sewer, on the ground or into any body of water.

Methods for cleaning up Clean contaminated surface thoroughly. Use:. Disinfectant.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear

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suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations

Follow universal and standard precautions for handling potentially infectious materials.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to

product and label instructions.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|----------------------------|-----------------------------|--------------------------------|---------------------------------|-----------------------------|-----------------------------|
| Sodium azide | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | * | STEL: 0.3 mg/m ³ | TWA: 0.1 mg/m ³ |
| 26628-22-8 | STEL: 0.3 mg/m ³ | STEL 0.3 mg/m ³ | | TWA: 0.1 mg/m ³ | STEL: 0.3 mg/m ³ |
| | * | H* | | K* | * |
| 5-Chloro-2-methyl-3(2H)-i | - | TWA: 0.05 mg/m ³ | - | - | - |
| sothiazolone, mixture with | | Skin sensitizer | | | |
| 2-methyl-3(2H)-isothiazol | | | | | |
| one | | | | | |
| 55965-84-9 | | | - | | |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Sodium azide | * | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ |
| 26628-22-8 | STEL: 0.3 mg/m ³ | Ceiling: 0.3 mg/m ³ | H* | STEL: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ |
| | TWA: 0.1 mg/m ³ | * | | A* | iho* |
| Citric acid | - | TWA: 4 mg/m ³ | - | - | - |
| 77-92-9 | | | 2 272 | | |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Sodium benzoate | - | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ | - | - |
| 532-32-1 | | H* | Peak: 20 mg/m ³ | | |
| Sodium azide | TWA: 0.1 mg/m ³ | TWA: 0.2 mg/m ³ | TWA: 0.2 mg/m ³ | TWA: 0.1 ppm | TWA: 0.1 mg/m ³ |
| 26628-22-8 | STEL: 0.3 mg/m ³ | 3 | Peak: 0.4 mg/m ³ | TWA: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ |
| | * | | | STEL: 0.1 ppm | 3 |
| | | | | STEL: 0.3 mg/m ³ | |
| Citric acid | - | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | - | - |
| 77-92-9 | | | Peak: 4 mg/m ³ | | |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| Sodium chloride | - | - | - | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ |
| 7647-14-5 | | | | _ | - |
| Sodium azide | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | Ceiling: 0.29 mg/m ³ | TWA: 0.1 mg/m ³ | * |
| 26628-22-8 | STEL: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ | Ceiling: 0.11 ppm | STEL: 0.3 mg/m ³ | TWA: 0.1 mg/m ³ |
| | Sk* | pelle* | | * | STEL: 0.3 mg/m ³ |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| Sodium azide | * | * | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | STEL: 0.3 mg/m ³ |
| 26628-22-8 | STEL: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ | TWA: 0.1 mg/m ³ |
| | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | H* | | * |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Sodium benzoate | - | - | - | TWA: 10 mg/m ³ | - |
| 532-32-1 | | | | STEL: 20 mg/m ³ | |
| | | | | * | |
| Sodium azide | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ |

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| Cei | TEL: 0.3 mg/m ³ ling: 0.29 mg/m ³ eiling: 0.11 ppm P* | STEL: 0.3 mg/m³ * | Ceiling: 0.3 mg/m³ | STEL: | 0.3 mg/m ³ | STEL: 0.3 mg/m ³ vía dérmica* |
|---|--|---|---|---|-----------------------|--|
| Chemical name | Sı | weden | Switzerland | | Uni | ted Kingdom |
| Sodium benzoate 532-32-1 | | - | TWA: 10 mg/m STEL: 0.8 ppm STEL: 4 mg/m | TWA: 1 mg/m³ TWA: 10 mg/m³ STEL: 0.8 ppm STEL: 4 mg/m³ STEL: 20 mg/m³ | | - |
| Sodium azide 26628-22-8 | | 0.1 mg/m ³ (GV: 0.3 mg/m ³ | TWA: 0.2 mg/m ³ STEL: 0.4 mg/m ³ | | | A: 0.1 mg/m ³ EL: 0.3 mg/m ³ Sk* |
| Citric acid 77-92-9 | | - | TWA: 2 mg/m ³ STEL: 4 mg/m ³ | | - | |
| 5-Chloro-2-methyl-3(2H)-isoth zolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | | - | TWA: 0.2 mg/m ³ STEL: 0.4 mg/m ³ | | | - |

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Follow universal and standard precautions for handling potentially infectious materials.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance aqueous solution

Colour amber

OdourNo information available.Odour thresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point No data available None known

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BioPlex 2200 Anti-CCP Calibrator set

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Boiling point / boiling rangeNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available None known

Autoignition temperature 1010 °C

Decomposition temperature

pН

pH (as aqueous solution) No data available No information available

Kinematic viscosity

Dynamic viscosity

Water solubility

No data available

No data available

Niscible in water

Solubility(ice)

Solubility(ies)

Partition coefficient

Vapour pressure

Relative density 1

No data available

No data available

No data available

Bulk density
No data available
Liquid Density
No data available
Vapour density
No data available

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Avoid contact with metals. This product contains Sodium azide. Sodium azide can react with

Copper, Brass, Lead, and solder in piping systems to form explosive compounds and toxic

None known

gases.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Metals.

10.6. Hazardous decomposition products

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Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components).

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives.

Acute toxicity

Numerical measures of toxicity

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|----------------------------------|------------------------|-----------------------------|
| Sodium chloride | Sodium chloride = 3 g/kg (Rat) | | > 42 mg/L (Rat)1 h |
| Sodium benzoate = 4070 mg/kg (Rat) | | - | - |
| Sodium azide | = 27 mg/kg (Rat) | = 20 mg/kg (Rabbit) | 0.054 - 0.52 mg/L (Rat) 4 h |
| Citric acid | = 3 g/kg (Rat) | > 2000 mg/kg (Rat) | - |
| 5-Chloro-2-methyl-3(2H)-isothia zolone, mixture with 2-methyl-3(2H)-isothiazolone | = 53 mg/kg (Rat) | = 87.12 mg/kg (Rabbit) | - |

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

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

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STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicityContains 0.0607 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to | Crustacea |
|-----------------|----------------------|--|---------------------|--|
| Sodium chloride | - | LC50: 5560 - 6080mg/L (96h, Lepomis macrochirus) LC50: =12946mg/L (96h, Lepomis macrochirus) LC50: 6020 - 7070mg/L (96h, Pimephales promelas) | microorganisms - | EC50: =1000mg/L (48h, Daphnia magna) EC50: 340.7 - 469.2mg/L (48h, Daphnia magna) |
| | | LC50: =7050mg/L (96h, Pimephales promelas) LC50: 6420 - 6700mg/L (96h, Pimephales promelas) LC50: 4747 - 7824mg/L (96h, Oncorhynchus mykiss) | | |
| Sodium benzoate | - | LC50: 420 - 558mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) | - | EC50: <650mg/L (48h, Daphnia magna) |
| Sodium azide | - | LC50: =0.8mg/L (96h, Oncorhynchus mykiss) LC50: =0.7mg/L (96h, Lepomis macrochirus) LC50: =5.46mg/L (96h, Pimephales promelas) | - | - |
| Citric acid | - | LC50: =1516mg/L (96h, Lepomis macrochirus) | - | - |

12.2. Persistence and degradability

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No information available.

Persistence and degradability

,

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|---|-----------------------|
| Sodium benzoate | -2.13 |
| Citric acid | -1.72 |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with | 0.7 |
| 2-methyl-3(2H)-isothiazolone | |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment |
|---|---------------------------------|
| Sodium chloride | The substance is not PBT / vPvB |
| Sodium benzoate | The substance is not PBT / vPvB |
| Sodium azide | The substance is not PBT / vPvB |
| Citric acid | The substance is not PBT / vPvB |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with | The substance is not PBT / vPvB |
| 2-methyl-3(2H)-isothiazolone | |

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Flush pipes with water frequently if discarding solutions

containing Sodium azide into metal piping systems.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards

Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special Precautions for Users

Special Provisions None

IMDG

14.1 UN number or ID number Not regulated

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14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special Precautions for Users

Special Provisions None

14.7 Maritime transport in bulk No information available according to IMO instruments

<u>RID</u>

14.1UN numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

ADR

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number | Title | | | | | |
|-----------------|------------------|-------|--|--|--|--|--|
| Sodium chloride | RG 78 | - | | | | | |
| 7647-14-5 | | | | | | | |

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH | Substance subject to authorisation per |
|---|--------------------------------|--|
| | Annex XVII | REACH Annex XIV |
| Citric acid - 77-92-9 | 75. | - |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with | 75. | - |
| 2-methyl-3(2H)-isothiazolone - 55965-84-9 | | |

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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EU - Plant Protection Products (1107/2009/EC)

| Chemical name | EU - Plant Protection Products (1107/2009/EC) |
|-----------------------------|---|
| Sodium chloride - 7647-14-5 | Plant protection agent |

Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|-----------------------|---|
| Citric acid - 77-92-9 | Product-type 1: Human hygiene |

<u>International Inventories</u> Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

EUH032 - Contact with acids liberates very toxic gas

EUH071 - Corrosive to the respiratory tract

H300 - Fatal if swallowed

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

| Classification procedure | |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |

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| Acute aquatic toxicity | Calculation method |
|--------------------------|--------------------|
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision Note Reviewed existing information and made minor updates

Revision date 16-Mar-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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End of Safety Data Sheet

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