



CDS Chlorine dioxide solution < 0,3%

According to Regulation (EC) No 1907/2006

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

1.1. Product identifier

Product name: CDS Chlorine dioxide solution < 3000 ppm

CAS number: 10049-04-4

EC number: 233-162-8

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

Use of the substance/mixture:

Disinfectants. PT 5 Drinking water disinfectant.

1.3. Details of the supplier of the safety data sheet

Company name: BUGSI SARL AU

Address: 59 Boulevard Zerktoni, Résidence Les Fleures, 7 Etg. Appt. 20, Casablanca, MOROCCO

Contact: bugsi@bugsi.co.uk | WhatsApp: +212 666-447287 | www.bugsi.co.uk

1.4. Emergency telephone number: Oulad Teima, Souss-Massa, Morocco +212 658-170546 (24h/7d)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

Read attached instructions before use

2.3. Other hazards

Use biocides safely. Always read the label and product information before use.

Results of PBT and vPvB assessment: Not applicable for inorganic substances

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aqueous solution

Hazardous components

Chemical name:	Chlorine dioxide
Quantity:	< 0,3%
CAS number:	10049-04-4
EC number:	233-162-8
Index number:	017-026-01-0
REACH number:	
GHS classification:	Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1; H301 H314 H318 H400

Full text of H and EUH statements: see section 16.

CDS Chlorine dioxide solution < 0,3%**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice

After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do.

Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. If swallowed, rinse mouth with water (only if the person is conscious).

When in doubt or if symptoms are observed, get medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Coordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

In case of fire may be liberated: Pyrolysis products, toxic.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

Additional information

Suppress gases/vapours/mists with a water spray jet. Collect contaminated fire extinguishing water separately

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow it to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling:

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

Use biocides safely. Always read the label and product information before use.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container. Keep the container tightly closed. Keep in a cool place.

Hints on joint storage

No information available.

Further information on storage conditions

Protect against: Light. Keep away from heat

Recommended storage temperature: 2 - 8 °C

Maximum storage period (time): 6 month(s)

7.3. Specific end use(s)

Disinfectants. PT 5 Drinking water disinfectant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
10049-04-4	Chlorine dioxide	0.1 0.3	0.28 0.84		TWA (8 h) STEL (15 min)	WEL WEL

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

When using, do not eat, drink, smoke, or sniff. Avoid contact with skin, eyes and clothes.

Do not breathe gas/fumes/vapour/spray.

Eye/face protection

Handling larger quantities (Filling and transfer): Wear eye/face protection.

Hand protection

Handling larger quantities (Filling and transfer): Wear suitable gloves.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Handling larger quantities (Filling and transfer): Use of protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Handling larger quantities (Filling and transfer): In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Avoid release to the environment.

CDS Chlorine dioxide solution < 0,3%**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	Light yellow, clear
Odour:	Like chlorine
Odour threshold:	Not determined
pH-Value:	7

Changes in the physical state

Melting point:	0 °C
Initial boiling point and boiling range:	100 °C
Flash point:	Not determined

Flammability

Solid:	Not applicable
Gas:	Not applicable

Explosive properties

The product is not: Explosive.	
Lower explosion limits:	Not determined
Upper explosion limits:	Not determined
Ignition temperature:	Not determined

Auto-ignition temperature

Solid:	Not applicable
Gas:	Not applicable
Decomposition temperature:	Not determined

Oxidizing properties

Not oxidising.

Vapour pressure (at 20 °C):	23,3 hPa
Density (at 20 °C):	1,0 g/cm ³
Water solubility:	Completely miscible

Solubility in other solvents

Not determined.

Partition coefficient:	Not determined
Viscosity / dynamic:	Not determined

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Viscosity / kinematic:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect against: Light. Keep away from heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

CAS number:	10049-04-4 Chlorine dioxide
Exposure route:	Oral
Dose	ATE 100 mg/kg

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

12.2. Persistence and degradability

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Not applicable for inorganic substances.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

Not applicable for inorganic substances.

12.6. Other adverse effects

No information available.

Further information

Do not allow it to enter into surface water or drains. Do not allow it to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow it to enter into surface water or drains. Do not allow it to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

CDS Chlorine dioxide solution < 0,3%**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:****14.2. UN proper shipping name:****14.3. Transport hazard class(es):****14.4. Packing group:****14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: NO

14.6. Special precautions for user

No information available

14.7. Transport in bulk 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 mixture****EU regulatory information**

Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D):

2 - obviously hazardous to water

Biocide registry number (BAuA):

N-99574

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

CDS Chlorine dioxide solution < 0,3%**Relevant H and EUH statements (number and full text)**

H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)