



VEILIGHEIDSFICHE

Di-ox Forte 0,75

Di-Ox Forte 0,75

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

1.1 Product identifier:

Product name : Di-Ox Fort 0,75
Registration number REACH :
Product type REACH : Substance/mono-constituent
CAS number : 10049-04-4
EC index number : 017-026-01-0
EC number : 233-162-8
Molecular mass : 67.45 g/mol
Formula : ClO₂

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

1.2.1 Relevant identified uses

Disinfectant

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

AGRO LOGIC
 Hondekensmolenstraat 56
 B-8870 Izegem
 tel: 051 31 43 93
 info@agrologic.be

1.4 Emergency telephone number:

24h/24h:
 +32 496 86 23 88

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Acute Tox.	category 3	H301: Toxic if swallowed.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Aquatic Acute	category 1	H400: Very toxic to aquatic life.

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

Xn; R22 - Harmful if swallowed.
 Xi; R36 - Irritating to eyes.
 N; R50 - Very toxic to aquatic organisms.

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)



Signal word
H-statements



Danger

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H301	Toxic if swallowed.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
P-statements	
P280	Wear eye protection/face protection.
P264	Wash hands thoroughly after handling.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.

2.3 Other hazards:

CLP

Moderately irritant to skin

SECTION 3: Composition/information on ingredients

3.1 Substances:

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
chlorine dioxide (-)	10049-04-4 233-162-8	C=0.75 %	T; R25 C; R34 N; R50	Acute Tox. 3; H301 Skin Corr. 1B; H314 Aquatic Acute 1; H400	(1)(2)(8)(9)	Mono-constituent

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

(9) M-factor, see heading 16

3.2 Mixtures:

Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately consult a doctor/medical service.

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

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

On burning: formation of small quantities of hydrogen chloride.

5.3 Advice for firefighters:

5.3.1 Instructions:

Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Face-shield. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and material for containment and cleaning up:

Take up liquid spill into inert absorbent material. Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: <50 °C. Provide for a tub to collect spills. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids, (strong) bases.

7.2.3 Suitable packaging material:

Polyethylene.

7.2.4 Non suitable packaging material:

Steel, copper, aluminium.

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

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a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

The Netherlands

Chloordioxide	Short time value	0.11 ppm 0.3 mg/m ³	Private occupational exposure limit value
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Belgium

Chlore (dioxyde de)	Short time value	0.3 ppm 0.84 mg/m ³	
	Time-weighted average exposure limit 8 h	0.1 ppm 0.28 mg/m ³	

USA (TLV-ACGIH)

Chlorine dioxide	Short time value	0.3 ppm	TLV - Adopted Value
	Time-weighted average exposure limit 8 h	0.1 ppm	TLV - Adopted Value

Germany

Chloordioxid	Time-weighted average exposure limit 8 h	0.1 ppm 0.28 mg/m ³	TRGS 900
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France

Chlore (dioxyde de)	Short time value	0.3 ppm 0.8 mg/m ³	VL: Valeur non réglementaire indicative
	Time-weighted average exposure limit 8 h	0.1 ppm 0.3 mg/m ³	VL: Valeur non réglementaire indicative

UK

Chlorine dioxide	Short time value	0.3 ppm 0.84 mg/m ³	Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	0.1 ppm 0.28 mg/m ³	Workplace exposure limit (EH40/2005)

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
Chlorine Dioxide	OSHA	ID 202

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL - Workers

chlorine dioxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.304 mg/m ³	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type B if conc. in air > exposure limit.

b) Hand protection:

Gloves.

- materials for protective clothing (good resistance)

PVC, butyl rubber, neoprene.

c) Eye protection:

Safety glasses.

d) Skin protection:

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Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Liquid
Odour	Irritating/pungent odour
Odour threshold	No data available
Colour	Yellow
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Non combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	100 °C
Flash point	No data available
Evaporation rate	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Solubility	water ; Complete
Relative density	1.0 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	1.87 ; 100 % ; 20 °C

Physical hazards

No physical hazard class

9.2 Other information:

Absolute density	1000 kg/m ³ ; 20 °C
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SECTION 10: Stability and reactivity

10.1 Reactivity:

Substance has acid reaction.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Keep away from naked flames/heat.

10.5 Incompatible materials:

Oxidizing agents, (strong) acids, (strong) bases, steel, copper, aluminium.

10.6 Hazardous decomposition products:

On burning: formation of small quantities of hydrogen chloride.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		292 mg/kg		Rat		Literature study

chlorine dioxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	OECD 401	93.86 mg/kg bw		Rat	Male/female	Experimental value
Inhalation (gases)	LC50		32 ppm	4 h	Rat	Male/female	Experimental value
Inhalation (gases)	LC50		89.6 mg/m ³	4 h	Rat	Male/female	Experimental value

Conclusion

Toxic if swallowed.

Corrosion/irritation

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Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Skin	Moderately irritating					Literature study

chlorine dioxide

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Corrosive					Literature study
Skin	Corrosive					Literature study

Conclusion

Causes serious eye irritation.

Not classified as irritating to the skin

Respiratory or skin sensitisation

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No (test)data available

Specific target organ toxicity

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No (test)data available

Mutagenicity (in vitro)

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No (test)data available

Mutagenicity (in vivo)

DIOX-FORTE 0,75

No (test)data available

Carcinogenicity

DIOX-FORTE 0,75

No (test)data available

Reproductive toxicity

DIOX-FORTE 0,75

No (test)data available

Conclusion CMR

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

Toxicity other effects

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No (test)data available

Chronic effects from short and long-term exposure

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No effects known.

11.1.2 Other information

DIOX-FORTE 0,75
No (test)data available

SECTION 12: Ecological information

12.1 Toxicity:

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		0.17 mg/l	96 h	Pimephales promelas			Literature study
	LC50		0.15 mg/l	96 h	Lepomis macrochirus			Literature study

Classification of the mixture is based on test data on the mixture as a whole

Conclusion

Highly toxic to fishes

12.2 Persistence and degradability:

Biodegradability: not applicable

12.3 Bioaccumulative potential:

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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

chlorine dioxide

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

No test data of component(s) available

12.4 Mobility in soil:

No (test)data on mobility of the components of the mixture available

12.5 Results of PBT and vPvB assessment:

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

12.6 Other adverse effects:

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Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

chlorine dioxide

Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

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Waste material code (Directive 2008/98/EC, decision 2000/0532/EC).

06 07 04* (solutions and acids, for example contact acid). Depending on branch of industry and production process, also other EURAL codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

UN number	3287
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14.2 UN proper shipping name:

Proper shipping name	Toxic liquid, inorganic, n.o.s.
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14.3 Transport hazard class(es):

Hazard identification number	60
Class	6.1
Classification code	T4

14.4 Packing group:

Packing group	III
Labels	6.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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14.6 Special precautions for user:

Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1 UN number:

UN number	3287
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14.2 UN proper shipping name:

Proper shipping name	Toxic liquid, inorganic, n.o.s.
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14.3 Transport hazard class(es):

Hazard identification number	60
Class	6.1
Classification code	T4

14.4 Packing group:

Packing group	III
Labels	6.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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14.6 Special precautions for user:

Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1 UN number:

UN number	3287
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14.2 UN proper shipping name:

Proper shipping name	Toxic liquid, inorganic, n.o.s.
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14.3 Transport hazard class(es):

Class	6.1
Classification code	T4

14.4 Packing group:

Packing group	III
Labels	6.1

14.5 Environmental hazards:

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Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	
Special provisions	274
Special provisions	802
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG)

14.1 UN number:	
UN number	3287
14.2 UN proper shipping name:	
Proper shipping name	Toxic liquid, inorganic, n.o.s.
14.3 Transport hazard class(es):	
Class	6.1
14.4 Packing group:	
Packing group	III
Labels	6.1
14.5 Environmental hazards:	
Marine pollutant	P
Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	
Special provisions	223
Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	
Annex II of MARPOL 73/78	

Air (ICAO-TI/IATA-DGR)

14.1 UN number:	
UN number	3287
14.2 UN proper shipping name:	
Proper shipping name	Toxic liquid, inorganic, n.o.s.
14.3 Transport hazard class(es):	
Class	6.1
14.4 Packing group:	
Packing group	III
Labels	6.1
14.5 Environmental hazards:	
Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	
Special provisions	A3
Special provisions	A4
Special provisions	A137
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	2 L

SECTION 15: Regulatory information

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

European legislation:

REACH Annex XVII - Restriction

Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
DIOXID SP 0.75% ClO2	Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/54/EC.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304.4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without

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		<p>prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'</p>
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National legislation

- The Netherlands

Waterbezuikbaarheid	5
Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 01

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

Information based on classification according to CLP

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Pure substance is listed in Annex I of directive 67/548/EEC (et sequens); labelling according to directive 1999/45/EC

Labels



Harmful



Dangerous for the environment

R-phrases

- 22 Harmful if swallowed
- 36 Irritating to eyes
- 50 Very toxic to aquatic organisms

S-phrases

- (02) (Keep out of the reach of children)
- (46) (If swallowed, seek medical advice immediately and show this container or label)
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Full text of any R-phrases referred to under headings 2 and 3:

- R22 Harmful if swallowed
- R25 Toxic if swallowed
- R34 Causes burns
- R36 Irritating to eyes
- R50 Very toxic to aquatic organisms

Full text of any H-statements referred to under headings 2 and 3:

- H301 Toxic if swallowed.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

- DSD Dangerous Substance Directive
- DPD Dangerous Preparation Directive
- CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

M-factor

chlorine dioxide	10	
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Specific concentration limits CLP

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chlorine dioxide	1% <= C < 5%	Skin Irrit. 2; H315
	C >= 5%	Skin Corr. 1B; H314
	C >= 3%	STOT SE 3; H335
	0.3% <= C < 3%	Eye Irrit. 2; H319
	3% <= C < 5%	Eye Dam. 1; H318

Specific concentration limits DSD

chlorine dioxide	C >= 25 %	T, N; R 25-34-50
	10 % <= C < 25 %	C, N; R 22-34-50
	3 % <= C < 10 %	Xn, N; R 22-36/37/38-50
	2,5 % <= C < 3 %	Xi, N; R 36-50
	0,3 % <= C < 2,5 %	Xi; R 36

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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