

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

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

1.1 Product identifier

Trade name : BIOCHLOR 500
Product code : 000000000062648458

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

Use of the Sub-
stance/Mixture : Disinfectants

1.3 Details of the supplier of the safety data sheet

Company : Antec International Limited
Windham Road
CO10 2XD Sudbury / Suffolk
Chilton Industrial Estate, Great Britain

Responsible Department : +49 221 8885 2288
infosds@lanxess.com

1.4 Emergency telephone number

Emergency telephone number : For 24/7 multilingual emergency please call
CHEMTREC EMEA: +44 20 3885 0382 and mention CCN
1001748.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH031 Contact with acids liberates toxic gas.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Prevention:

P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

Response:

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.
P391 Collect spillage.

Storage:

P405 Store locked up.
P402 + P404 Store in a dry place. Store in a closed container.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
troclosene sodium

Additional Labelling

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
troclosene sodium	2893-78-9 220-767-7 613-030-00-X	Ox. Sol. 2; H272 Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH031 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 50 - < 70
adipic acid	124-04-9 204-673-3 607-144-00-9 UK-01-2641651159-5-0003	Eye Irrit. 2; H319	>= 20 - < 30
sodium carbonate	497-19-8 207-838-8 011-005-00-2	Eye Irrit. 2; H319	>= 1 - < 10

For explanation of abbreviations see section 16.

Disclaimer: EC numbers starting with 6, 7, 8, or 9 in this document are ECHA List Numbers used for internal reference and do not carry legal significance as typical EC Numbers in Safety Data Sheets.

Specific Concentration limits (Regulation EC) No 1272/2008)

Chemical name	CAS-No. EC-No.	Classification	Concentration (%)
troclosene sodium	2893-78-9 220-767-7	STOT SE3; H335 EUH031	>= 10 % >= 10 %

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

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SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Do not leave the victim unattended.
Call a physician immediately.
Show this safety data sheet to the doctor in attendance.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Loosen tight clothing such as a collar, tie, belt or waistband.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Get medical attention if symptoms occur.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
If on skin, rinse well with water.
Get medical attention if symptoms occur.
- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Continue to rinse for at least 10 minutes.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.
Rinse mouth with water.
If unconscious, place in recovery position and get medical attention immediately.
Keep respiratory tract clear.
Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes serious eye irritation.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
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May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : In a fire or if heated, a pressure increase will occur and the container may burst.
Do not allow run-off from fire fighting to enter drains or water courses.
Very toxic to aquatic life with long lasting effects.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Halogenated compounds
Metal oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
No action shall be taken involving any personal risk or without suitable training.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : No action shall be taken involving any personal risk or without suitable training.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilt material.
Remove all sources of ignition.
Avoid dust formation.
Do not breathe dust.
Ensure adequate ventilation.
In case of inadequate ventilation wear respiratory protection.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Evacuate personnel to safe areas.
Move containers from spill area.
Stop leak if safe to do so.
Pick up and arrange disposal without creating dust.
Large spills:
Remove mechanically by a method that minimizes the generation of airborne dust (vacuum cleaner, wet mopping, etc.) Ensure vacuum cleaners are approved for explosible dusts. Do not use compressed air for cleaning.

Dispose of wastes in an approved waste disposal facility.

6.4 Reference to other sections

For personal protection see section 8.
For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Avoid release to the environment.
Avoid contact with skin and eyes.
Do not breathe dust.
Provide sufficient air exchange and/or exhaust in work rooms.
In case of insufficient ventilation, wear suitable respiratory equipment.
Remove all sources of ignition.
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
Dispose of rinse water in accordance with local and national regulations.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in accordance with local regulations. Do not store in unlabelled containers. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Use appropriate container to avoid environmental contamination. Keep containers sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No materials to be especially mentioned.

Further information on storage stability : Stable under recommended storage conditions.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
adipic acid	Workers	Inhalation	Long-term exposure, Systemic effects	74.1 mg/m ³
	Workers	Dermal	Long-term exposure, Systemic effects	21 mg/kg bw/day
	Consumers	Inhalation	Long-term exposure, Systemic effects	13 mg/m ³
	Consumers	oral	Long-term exposure, Systemic effects	7.5 mg/kg bw/day
	Consumers	Dermal	Long-term exposure, Systemic effects	7.5 mg/kg bw/day
sodium carbonate	Workers	Inhalation	Long-term exposure, short-term, Systemic	10 mg/m ³

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

			effects, Local effects	
	Consumers	Inhalation	Long-term exposure, Short-term exposure, Systemic effects, Local effects	10 mg/m3

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
adipic acid	Fresh water	0.126 mg/l
	Freshwater - intermittent	0.46 mg/l
	Marine water	0.013 mg/l
	Fresh water sediment	0.0474 mg/kg dry weight (d.w.)
	Marine sediment	0.0474 mg/kg dry weight (d.w.)
	Soil	0.021 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields

Hand protection

Material : Impervious gloves
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : not required under normal use
Respirator must be worn if exposed to dust.
Respirator with a dust filter

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According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	tablet
Physical state	:	solid
Colour	:	white
Odour	:	Chlorine
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	5 - 6.5 Concentration: 1 %
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)	:	
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

Relative density : No data available

Density : 1.4 g/cm³

Relative vapour density : No data available

9.2 Other information

Explosives : No data available

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : No data available

Miscibility with water : completely miscible

Surface tension : No data available

Molecular weight : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with acids liberates toxic gas.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids liberates toxic gas.
No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Keep away from direct sunlight.

10.5 Incompatible materials

Materials to avoid : Combustible substances
moisture
Acids and bases
Strong oxidizing agents
Strong reducing agents
Hydrocarbons
Nitrates, inorganic, n.o.s.
Nitriles

SAFETY DATA SHEET

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UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

organic compounds

10.6 Hazardous decomposition products

Carbon monoxide
Nitrogen oxides (NO_x)
Hydrogen chloride gas
Isocyanates
Chlorine

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

troclosene sodium:

Acute oral toxicity : LD50 (Rat, female): 1,671 mg/kg
Method: OPP 81-1 Acute Oral Toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.17 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: the particle size measurements of the product indicate that it is not respirable and therefore not bioavailable by the inhalation route.

Acute dermal toxicity : LD50 (Rat, male and female): Method: OPP 81-2 Acute Dermal Toxicity

adipic acid:

Acute oral toxicity : LD50 (Rat, male and female): 5,560 mg/kg
Method: OECD Test Guideline 401
GLP: No

Acute inhalation toxicity : LC0 (Rat, male and female): 7.7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

- Remarks: Highest producible concentration.
- Acute dermal toxicity : LD0 (Rabbit, male and female): 7,940 mg/kg
GLP: No
Remarks: Highest producible concentration.
- sodium carbonate:**
- Acute oral toxicity : LD50 (Rat, male and female): 2,800 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male): 2300 mg/m³
Exposure time: 2 h
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: EPA 16 CFR 1500.40
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: No mortality observed at this dose.

Skin corrosion/irritation

Not classified based on available information.

Components:

adipic acid:

- Species : Rabbit
GLP : No
Remarks : Mild skin irritation
Fully reversible in 7 days or less

sodium carbonate:

- Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : Yes

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

adipic acid:

- Species : Rabbit
Assessment : Irritating to eyes.
Method : OECD Test Guideline 405
Remarks : May cause irreversible eye damage.

sodium carbonate:

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

Species : Rabbit
Result : Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

troclosene sodium:

Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.
GLP : Yes

adipic acid:

Exposure routes : Skin contact
Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

adipic acid:

Genotoxicity in vitro : Test Type: Ames test
Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: human diploid fibroblasts
Metabolic activation: without metabolic activation
Result: negative
GLP: No

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: Yes

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

Carcinogenicity

Not classified based on available information.

Components:

adipic acid:

Species : Rat, male and female
Application Route : Oral
Exposure time : 2 Years
NOAEL : ca. 750 mg/kg bw/day
GLP : No

Reproductive toxicity

Not classified based on available information.

Components:

adipic acid:

Effects on foetal development : Species: Rabbit
Application Route: Oral
Duration of Single Treatment: 13 d
General Toxicity Maternal: NOAEL: 250 mg/kg body weight
Developmental Toxicity: NOAEL: 250 mg/kg body weight
GLP: No

sodium carbonate:

Effects on foetal development : Species: Rat
Application Route: Oral
Dose: 2,45 - 11,4 - 52,9 - 245 milligram per kilogram
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: >= 245 mg/kg body weight
Teratogenicity: NOAEL: >= 245 mg/kg body weight

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

SECTION 12: Ecological information

12.1 Toxicity

Components:

troclosene sodium:

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1,000 mg/l
Exposure time: 96 h
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.17 mg/l
Exposure time: 48 h
Remarks: Fresh water
- Toxicity to algae/aquatic plants : EC50 (Navicula pelliculosa (Freshwater diatom)): > 5,000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: Yes
Remarks: Fresh water
- NOEC (Navicula pelliculosa (Freshwater diatom)): 1,250 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: Yes
Remarks: Fresh water
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : NOEC: 1,000 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 215
GLP: Yes
Remarks: Fresh water
- M-Factor (Chronic aquatic toxicity) : 1

adipic acid:

- Toxicity to fish : LC0 (Danio rerio (zebra fish)): > 1,000 mg/l
Exposure time: 96 h
GLP: Yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 46 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (microalgae)): 59 mg/l

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

- plants End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 41 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: No
Method: OECD Test Guideline 209
GLP: Yes
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6.3 mg/l
End point: Reproduction
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
- sodium carbonate:**
- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (Water flea)): 220 - 227 mg/l
Exposure time: 48 h
Remarks: Fresh water

12.2 Persistence and degradability

Components:

adipic acid:

- Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 83 %
Exposure time: 30 d
Method: OECD Test Guideline 301D
GLP: No
- Result: Inherently biodegradable.
Biodegradation: > 90 %
Exposure time: 5 d
Method: Regulation (EC) No. 440/2008, Annex, C.9

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

sodium carbonate:

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Components:

adipic acid:

Bioaccumulation : Bioconcentration factor (BCF): 3.16

Partition coefficient: n-octanol/water : log Pow: 0.093
Method: measured

12.4 Mobility in soil

Components:

adipic acid:

Distribution among environmental compartments : Koc: 21.5, log Koc: 0.093

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

adipic acid:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

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UK REACH Regulations SI 2019/758



BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : The generation of waste should be avoided or minimised wherever possible.
Where possible recycling is preferred to disposal or incineration.
Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls
Dispose of as hazardous waste in compliance with local and national regulations.
Do not contaminate ponds, waterways or ditches with chemical or used container.
The product should not be allowed to enter drains, water courses or the soil.
Dispose of wastes in an approved waste disposal facility.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

- ADN : UN 3077
ADR : UN 3077
RID : UN 3077
IMDG : UN 3077
IATA : UN 3077

14.2 UN proper shipping name

- ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(TROCLOSENE SODIUM)
ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(TROCLOSENE SODIUM)
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(TROCLOSENE SODIUM)

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(TROCLOSENE SODIUM)

IATA : Environmentally hazardous substance, solid, n.o.s.
(TROCLOSENE SODIUM)

14.3 Transport hazard class(es)

ADN : 9

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADN
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9



ADR
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9



Tunnel restriction code : (-)

RID
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9



IMDG
Packing group : III

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

Labels : 9



EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft) : 956 : 400.00 KG

Packing group : III

Labels : 9



IATA (Passenger)

Packing instruction (passenger aircraft) : 956 : 400.00 KG

Packing group : III

Labels : 9



14.5 Environmental hazards

ADN

Environmentally hazardous : yes



ADR

Environmentally hazardous : yes



RID

Environmentally hazardous : yes



SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

IMDG

Marine pollutant : yes



IATA (Passenger)

Environmentally hazardous : yes



IATA (Cargo)

Environmentally hazardous : yes



14.6 Special precautions for user

Hazard and Handling Notes. : Environmentally hazardous substance.
Irritating to the eyes.
Keep away from acids and oxidizing agents.
Keep away from foodstuffs, acids and alkalis.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. : Neither banned nor restricted

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH)

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

EUH031 : Contact with acids liberates toxic gas.
H272 : May intensify fire; oxidizer.
H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Irrit. : Eye irritation
Ox. Sol. : Oxidizing solids
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



BIOCHLOR 500

Version 1.0 Revision Date: 07.05.2024 SDS Number: 215000012085 Date of last issue: -
Country / Language: GB / 6N (EN)

tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Eye Irrit. 2	H319
STOT SE 3	H335
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



BIOCHLOR 500

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.05.2024	215000012085	Country / Language: GB / 6N (EN)

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