

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Antisept-S
Revision date : 08.06.2020
Print date : 17.06.2020

Version : 1.0.0

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

1.1 Product identifier

Antisept-S

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

Relevant identified uses

PC 0.67 - Disinfectant

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Bio-Circle Surface Technology GmbH

Street : Berensweg 200

Postal code/city : 33334 Gütersloh

Telephone : +49 5241 9443 0

Telefax : +49 5241 9443 44

Information contact : labor@bio-circle.de

1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

None

2.2 Label elements

Use biocides safely. Always read the label and product information before use.
0,02 g hypochlorous acid on 100 g product.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; EC No. : 231-668-3; CAS No. : 7681-52-9

Weight fraction : < 0,2 %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Specific Conc. Limits : EUH031: C ≥ 5 % • (M Chronic=1) • (M Acute=10)

Further ingredients

SODIUM CHLORIDE ; REACH No. : 01-2119485491-33-XXXX ; EC No. : 231-598-3; CAS No. : 7647-14-5

Weight fraction : < 1 %

hypochlorous acid ; EC No. : 232-232-5; CAS No. : 7790-92-3

Weight fraction : < 0,2 %

Additional information

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

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

SECTION 4: First aid measures

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4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

After ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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. No special measures are necessary.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO₂) Sand Nitrogen Extinguishing blanket

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO₂)

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. 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

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7.1 Precautions for safe handling

Wash hands before breaks and after work. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature 8 °C - 25 °C

Protect against direct sunlight.

Store in a cool dry place.

P233 - Keep container tightly closed. Keep/Store only in original container. Protect against Frost

Hints on joint storage

Storage class (TRGS 510) : 12

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

Limit value type : DNEL worker (local) (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 1,55 mg/m³

Limit value type : DNEL worker (local) (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 3,1 mg/m³

Limit value type : DNEL worker (systemic) (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 1,55 mg/m³

Limit value type : DNEL worker (systemic) (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 3,1 mg/m³

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection

EN 166.

Skin protection

Hand protection

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Wear protective gloves in case of longer lasting skin contact.

Suitable gloves type : EN 374.

Suitable material : NBR (Nitrile rubber)

Breakthrough time (maximum wearing time) : 480 min.

Thickness of the glove material : 0.4 mm

Remark : 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.

General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : colourless

Odour

Chlorine

Safety characteristics

Freezing point :	(1013 hPa)	-1 - -3	°C	
Initial boiling point and boiling range :	(1013 hPa)	95 - 100	°C	
Flash point :		No data available		
Lower explosion limit :		No data available		
Upper explosion limit :		No data available		
Vapour pressure :	(50 °C)	No data available		
Density :	(20 °C)	1,001 - 1,08	g/cm ³	
Solvent separation test :	(20 °C)	not applicable		
pH :		6 - 7		
Flow time :	(20 °C)	not applicable		DIN-cup 4 mm
Maximum VOC content (EC) :		0	Wt %	
Maximum VOC content (Switzerland) :		0	Wt %	

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Thermal decomposition

10.2 Chemical stability

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The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.
Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (SODIUM CHLORIDE ; CAS No. : 7647-14-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5,23 g/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (SODIUM CHLORIDE ; CAS No. : 7647-14-5)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 10000 mg/kg
Parameter :	LD50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 20000 mg/kg
Method :	OECD 402

Acute inhalation toxicity

Parameter :	LC50 (SODIUM CHLORIDE ; CAS No. : 7647-14-5)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 42 mg/l
Exposure time :	1 h
Parameter :	LC50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 10,5 mg/l
Exposure time :	1 h
Method :	OECD 403

Corrosion

Skin corrosion/irritation

No further relevant information available.

Serious eye damage/eye irritation

No further relevant information available.

Respiratory or skin sensitisation

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Skin sensitisation

No further relevant information available.

Sensitisation to the respiratory tract

No further relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No further relevant information available.

Germ cell mutagenicity

No further relevant information available.

Reproductive toxicity

No further relevant information available.

STOT-single exposure

No further relevant information available.

STOT-repeated exposure

No further relevant information available.

Aspiration hazard

No further relevant information available.

11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

11.3 Other adverse effects

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

11.4 Additional information

Preparation not tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (SODIUM CHLORIDE ; CAS No. : 7647-14-5)

Species : Lepomis macrochirus (Bluegill)

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : 5840 mg/l

Exposure time : 96 h

Parameter : LC50 (SODIUM CHLORIDE ; CAS No. : 7647-14-5)

Species : Daphnia magna (Big water flea)

Evaluation parameter : Acute (short-term) daphnia toxicity

Effective dose : 874 mg/l

Exposure time : 24 h

Parameter : LC50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)

Species : Lepomis macrochirus (Bluegill)

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : 0,58 mg/l

Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (SODIUM CHLORIDE ; CAS No. : 7647-14-5)

Species : Pimephales promelas (fathead minnow)

Evaluation parameter : Chronic (long-term) fish toxicity

Effective dose : 252 - 533 mg/l

Exposure time : 33 D

Method : OECD 210

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Parameter : LOEC (SODIUM CHLORIDE ; CAS No. : 7647-14-5)
Species : Pimephales promelas (fathead minnow)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 352 - 734 mg/l
Exposure time : 33 D
Method : OECD 210

Acute (short-term) toxicity to crustacea

Parameter : EC50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 141 µg/l
Exposure time : 48 h
Method : OECD 202

Chronic (long-term) toxicity to crustacea

Parameter : NOEC (SODIUM CHLORIDE ; CAS No. : 7647-14-5)
Species : Daphnia pulex (water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 314
Exposure time : 21 D
Method : OECD 211

Parameter : LOEC (SODIUM CHLORIDE ; CAS No. : 7647-14-5)
Species : Daphnia pulex (water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 441 mg/l
Exposure time : 21 D
Method : OECD 211

Parameter : NOEC (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 50 µg/l
Exposure time : 48 h
Method : OECD 202

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 (SODIUM CHLORIDE ; CAS No. : 7647-14-5)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 2430 mg/l
Exposure time : 120 h
Method : OECD 201

Toxicity to microorganisms

Parameter : EC50 (SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9)
Species : Bacteria toxicity
Effective dose : > 3 mg/l
Exposure time : 3 h

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

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12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

13.1 Waste treatment methods

Dispose of waste according to applicable legislation.

Product/Packaging disposal

Waste treatment options

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

< 5 % chlorine-based bleaching agents , Disinfectants

National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Water hazard class (WGK)

Classification according to AwSV - Class : nwg (Non-hazardous to water)

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

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SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)
AOX: adsorbierbare organisch gebundene Halogene
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)
CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)
EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung
ECHA: Europäische Chemikalienagentur (European Chemicals Agency)
EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)
GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)
IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)
ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)
IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)
RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)
TRGS: Technische Regel für den Umgang mit Gefahrstoffen
VbF: Verordnung über brennbare Flüssigkeiten
VOC: flüchtige organische Verbindung (volatile organic compound)
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank
ECHA: Classification And Labelling Inventory
ECHA: Pre-registered Substances
ECHA: Registered Substances
EC Safety Data Sheet of Suppliers
ESIS: European Chemical Substances Information System
GDL: Gefahrstoffdatenbank der Länder
UBA Rigoletto: Wassergefährdende Stoffe
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of

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mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
