

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.02.2021

Rev. Index : 31.3

Revision: 03.04.2020

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

1.1 Product identifier

Trade name: hthSpa[™] FLASH DESINFECTION

Article number: 11602 hthSpa

REGULATION (EC) No 1272/2008 - ANNEX VI - International Chemical Identification

calcium hypochlorite

CAS Number:

7778-54-3

EC number:

231-908-7

Index number:

017-012-00-7

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

Sector of Use SU21 Consumer uses: Private households / general public / consumers

Product category

PC37 Water treatment chemicals

PC8 Biocidal products

Application of the substance / the mixture Water treatment - Solid Chlorinating agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

INNOVATIVE WATER CARE EUROPE

BP 219 - 37402 Amboise Cedex - FRANCE

phone : +33 (0)2 47 23 43 00

fax : +33 (0)2 47 23 12 21

eu.sds@sigurawater.com

Innovative Water Care, LLC
1400 Bluegrass Lakes Pkwy, Alpharetta,
GA 30004 - U.S.A.

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1200 Lower river Road, P.O. Box 800
Charleston, Tennessee 37310-0800 - U.S.A.

INNOVATIVE WATER CARE Ltd
The Studios - Colorado Way - Castleford - West Yorkshire -
WF10 4TA - UNITED KINGDOM
Telephone: +44 (0) 1924 792909
eu.sds@sigurawater.com

1.4 Emergency telephone number:

Europe >>> NCEC - Tel. +44 (0)1235 239 670
Africa & Middle East >>> NCEC - Tel. +44 (0)1235 239 671
N.AMERICA >>> ACEAN (Arch Chemicals Emergency Action Network) - Tel. +1 423
780 2970}

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008



GHS03 flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidiser.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.



GHS09 environment

Aquatic Acute 1 H400 (M=10) Very toxic to aquatic life.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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Hazard pictograms



GHS03 GHS05 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:

calcium hypochlorite

Hazard statements

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use for extinction: Water.

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P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container to special treatment scheme according to official regulations.

Additional information:

EUH031 Contact with acids liberates toxic gas.

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

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances

CAS No. Description:

7778-54-3 calcium hypochlorite

Identification number(s):

EC number: 231-908-7

Index number: 017-012-00-7

Dangerous components: Void

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

In case of unconsciousness place patient stably in side position for transportation.

After skin contact

Rinse with warm water.

Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes (15) under running water. Then consult a doctor.

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After swallowing

Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty

Coughing

Nausea

Gastric or intestinal disorders.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

Water spray

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents Extinguishing powder.

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Keep contaminated washing water and dispose of appropriately.

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.

Handling



DO NOT MIX WITH OTHER PRODUCTS
DO NOT DISSOLVE BEFORE USE

Information about fire - and explosion protection:

Substance/product is oxidising when dry.
Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.
Do not store product where the average daily temperature exceeds 35°C. Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products.

Information about storage in one common storage facility:

Store away from flammable substances.
Store away from reducing agents.
Do not store together with acids.

Further information about storage conditions: Keep receptacle tightly sealed.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

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8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.
Use suitable respiratory protective device when high concentrations are present.
Filter P2.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Powder
Colour:	Whitish
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: 11.5**Change in condition**

Melting point/freezing point:	100 °C (decomp)
Initial boiling point and boiling range:	undetermined

Flash point: Not applicable**Flammability (solid, gaseous)** Product is not flammable.**Decomposition temperature:** 170 - 180 °C**Auto-ignition temperature:** Not determined.**Explosive properties:** Product does not present an explosion hazard.**Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure: Not applicable.

Density at 20 °C:	0.8 g/cm ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.

**Solubility in / Miscibility with
Water at 20 °C:** 217 g/l**Partition coefficient: n-octanol/water:** Not determined.**Viscosity:
dynamic:** Not applicable.(Contd. on page 9)
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kinematic: Not applicable.

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Solids content: 100.0 %

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

Do not store product where the average daily temperature exceeds 35°C.

Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products

10.3 Possibility of hazardous reactions

Reacts with alcohols, amines, aqueous acids and alkalis

Reacts with strong oxidizing agents

NEVER MIX THIS PRODUCT WITH ORGANIC CHLORINE (TRICHLOR or DICHLOR) WITHIN THE SAME CONTAINER

Reacts with flammable substances

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products: Poisonous gases/vapours

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

LD/LC50 values relevant for classification:

Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LD50	1,300 mg/cm3 (rat)

CAS: 7778-54-3 calcium hypochlorite

Oral	LD50	850 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LD50	1,300 mg/cm3 (rat)

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Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

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

Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

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

Reproductive toxicity 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

Aquatic toxicity:

Oral	LC50 - 96 hrs	0.088 mg/l (bluegill sunfish)
		0.16 mg/l (rainbow trout)
	LC50 - 48 hrs	0.11 mg/l (daphnia magna)

CAS: 7778-54-3 calcium hypochlorite

Oral	LC50 - 96 hrs	0.088 mg/l (bluegill sunfish)
		0.16 mg/l (rainbow trout)
	LC50 - 48 hrs	0.11 mg/l (daphnia magna)

12.2 Persistence and degradability

Anorganic product, is not eliminable from water by means of biological cleaning processes.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark:

Very toxic for fish

Oral	LD/LC50	>3,474 ppm (bobwhite quail)
		>5,000 ppm (mallard duck)

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Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.
 Do not allow product to reach ground water, water course or sewage system.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Danger to drinking water if even small quantities leak into the ground.
 Very toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must be specially treated adhering to official regulations.
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN2880

14.2 UN proper shipping name

ADR

2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, ENVIRONMENTALLY HAZARDOUS

IMDG

CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, MARINE POLLUTANT

IATA

CALCIUM HYPOCHLORITE, HYDRATED MIXTURE

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14.3 Transport hazard class(es)

ADR



**Class
Label**

5.1 (O2) Oxidising substances.
5.1

IMDG



**Class
Label**

5.1 Oxidising substances.
5.1

IATA



**Class
Label**

5.1 Oxidising substances.
5.1

14.4 Packing group

ADR, IMDG, IATA

II

**14.5 Environmental hazards:
Marine pollutant:**

Yes

Symbol (fish and tree)

Symbol (fish and tree)

Warning: Oxidising substances.

Special marking (ADR):

14.6 Special precautions for user

Hazard identification number (Kemler code):

50

EMS Number:

F-H,S-Q

Segregation groups

Hypochlorites

Stowage Category

D

Stowage Code

SW1 Protected from sources of heat.

SW11 Cargo transport units shall be shaded from direct sunlight. Packages in cargo transport units shall be stowed so as to allow for adequate air circulation throughout the cargo.

Segregation Code

SG35 Stow "separated from" SGG1-acids

SG38 Stow "separated from" SGG2-ammonium

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

compounds.
 SG49 Stow "separated from" SGG6-cyanides
 SG53 Stow "separated from" liquid organic substances
 SG60 Stow "separated from" SGG16-peroxides

Not applicable.

Transport/Additional information:

ADR
 Excepted quantities (EQ): E2
 Limited quantities (LQ) 1 kg
 Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 g
 Maximum net quantity per outer packaging: 500 g

Transport category 2
Tunnel restriction code E

IMDG
 Limited quantities (LQ) 1 kg
 Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 g
 Maximum net quantity per outer packaging: 500 g

UN "Model Regulation":
 UN 2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

REGULATION (EU) No 528/2012

Best before : see date on packaging

Providing this container when empty is thoroughly rinsed out in the pool, it may be disposed of via the recycling scheme

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

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Seveso category

P8 OXIDISING LIQUIDS AND SOLIDS

E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Sol. 2: Oxidizing solids – Category 2

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

* **Data compared to the previous version altered.**