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

Printing date 16.12.2019 Rev. Index: 70 Revision: 16.12.2019

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

1.1 Product identifier

Trade name: hth™ STICK

Article number: 11601 AUS 3 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

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category
PC8 Biocidal products
PC37 Water treatment chemicals

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, LLC

1400 Bluegrass Lakes Pkwy, Alpharetta, GA 30004 - U.S.A.

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

Further information obtainable from: 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

framsds-reach.france.euwater@lonza.com

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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 780 2970}

>>> ACEAN (Arch Chemicals Emergency Action Network) - Tel. +1 423

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 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.

Hazard pictograms









GHS03 GHS05 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:

calcium hypochlorite Hazard státements

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.

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(Contd. of page 2) P103 Read label before use. 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. Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product. P264 P270 Use only outdoors or in a well-ventilated area. Avoid release to the environment. P271 P273 P280 Wear protective gloves/protective clothing/eye protection/face 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].

IF INHALED: Remove person to fresh air and keep comfortable for P304+P340 breathing. Immediately call a POISON CENTER/doctor. P310 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and éasy to do. Continue rinsing. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use for extinction: Water. 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 Warning! Do not use together with other products. May release dangerous gases (chlorine)

2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

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				
Impurities and stabilising additives:				
CAS: 471-34-1 EINECS: 207-439-9 Reg.nr.: 01-2119486795-18-XXXX	calcium carbonate			
CAS: 10043-52-4 EINECS: 233-140-8 Reg.nr.: 01-2119494219-28-XXXX	calcium chloride Acute Tox. 4, H302; Eye Irrit. 2, H319			

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CAS: 1305-62-0 EINECS: 215-137-3	calcium dihydroxide	(Contd. of page 3)
CAS: 10137-74-3 EINECS: 233-378-2	calcium chlorate Ox. Sol. 2, H272	
CAS: 7647-14-5 EINECS: 231-598-3 Reg.nr.: 01-2119485491-33-XXXX	sodium chloride	
Dangerous components:		
CAS: 7778-54-3 EINECS: 231-908-7	calcium hypochlorite Ox. Sol. 2, H272; Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1B; H314: C≥5% Skin Irrit. 2; H315: 1% ≤ C < 5% Eye Dam. 1; H318: C≥3% Eye Irrit. 2; H319: 0.5% ≤ C < 3%	50-<100%
CAS: 10043-52-4 EINECS: 233-140-8 Reg.nr.: 01-2119494219-28-XXXX	calcium chloride Acute Tox. 4. H302: Eve Irrit. 2. H319	< 2%
CAS: 1305-62-0 EINECS: 215-137-3	calcium dihydroxide	< 3%
CAS: 10137-74-3 EINECS: 233-378-2	calcium chlorate Ox. Sol. 2, H272	< 2%

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. Immediately rinse with water.

After eye contact

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

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 Naušea

Gastric or intestinal disorders.

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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

Carbon monoxide (CO)

Hydrogen chloride (HCI)

During heating or in case of fire poisonous gases are produced. **5.3 Advice for firefighters**

Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Mount respiratory protective dévice.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

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 See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Any unavoidabledeposit of dust must be regularly removed.

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Handling



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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

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℃. 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

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required. **Additional information:** The lists valid during the making were used as basis.

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.

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 prepăration.

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

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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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles.

Body protection:

Apron **Boots**

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Tablets Colour: Whitish

Odour: Characteristic **Odour threshold:** Not determined.

11.5 pH-value:

Change in condition

Melting point/freezing point: 100 ℃ (Decomp.) Initial boiling point and boiling range: undetermined

Flash point: Not applicable

Product is not flammable. Flammability (solid, gaseous)

170 - 180 ℃ **Decomposition temperature:** Not determined. **Auto-ignition temperature:**

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Not determined. Lower: Upper: Not determined. Vapour pressure: Not applicable.

Density at 20 ℃: 1.3 g/cm³

Relative density Not determined. Not applicable. Vapour density **Evaporation rate** Not applicable.

Solubility in / Miscibility with

Water at 20 ℃: 217 g/l

Partition coefficient: n-octanol/water: Not determined.

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Viscosity:

dynamic: Not applicable. Not applicable. kinematic:

100.0 % Solids content:

No further relevant information available. 9.2 Other information

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℃.

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
NEVER MIX THIS PRODUCT WITH ORGANIC CHLORINE (TRICHLOR or DICHLOR)

WITHIN THE SAME CONTAINER

Reacts with strong oxidizing agents Reacts with alcohols, amines, aqueous acids and alkalis

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

Chlorine

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

LD/LC50 values relevant for classification:				
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)		

Primary irritant effect: Skin córrosion/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.

CMR effects (carcinogenity, 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.

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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

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Au	uauc	LUXI	CILY.

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.

Ecotoxical effects:

Remark: Very toxic for fish Additional ecological information:

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:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN-Number ADR, IMDG, IATA

UN1748

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14.2 UN proper shipping name ADR

IMDG

IATA

14.3 Transport hazard class(es)

ADR





Class

Label

5.1 (O2) Oxidising substances.

IMDG





Class Label

5.1 Oxidising substances.

IATA



Class Label

14.4 Packing group ADR, IMDG, IATA

14.5 Environmental hazards:

Marine pollutant:

Special marking (ADR):

14.6 Special precautions for user

Danger code (Kemler):

EMS Number: Segregation groups **Stowage Category** Stowage Code

5.1 Oxidising substances.

Ш

Yes

Symbol (fish and tree) Sýmbol (fish and tree)

Warning: Oxidising substances.

50 F-H.S-Q Hypochlorites

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.
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1748 CALCIUM HYPOCHLORITE MIXTURE,

CALCIUM HYPOCHLORITE MIXTURE, DRY, MARINE POLLUTANT CALCIUM HYPOCHLORITE MIXTURE, DRY

DRY, ENVIRONMENTALLY HAZARDOUS

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(Contd. of page 10) Segregation Code

SG35 Stow "separated from" SGG1-acids SG38 Stow "separated from" SGG2-ammonium

compounds.

SG49 Stow "separated from" SGG6-cyanides SG53 Stow "separated from" liquid organic

substances

SG60 Stow "separated from" SGG16-peroxides

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

Transport/Additional information:

ADR

Excepted quantities (EQ): 5 kg Limited quantities (LQ) **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging:

1000 a

Transport category Ε Tunnel restriction code

IMDG

Limited quantities (LQ) Code: E1 **Excepted quantities (EQ)**

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging:

1000 g UN 1748_CALCIUM_HYPOCHLORITE **UN "Model Regulation":**

MIXTURE, DRY, 5.1, III, ENVIRONMENTALLY

HAZARDÓUS

SECTION 15: Regulatory information

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

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

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

National regulations

Waterhazard class: Water hazard class 2 (Assessment by list): hazardous for water.

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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.

Relevant phrases

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H400 Very toxic to aquátic life.

Abbreviations and acronyms:

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

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic Persistent, bloaccumulative 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
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment acute aquatic hazard – Category 1
* Data compared to the provious version altered

Data compared to the previous version altered.

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