



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

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Version number 53

Revised on: 23.09.2019

SECTION 1: Name of the substance or the company of the mixture

1.1 Product identifier

Trade name: hth™ GRANUFAST

Item number: 11707 hth

REGULATION (EC) No. 1272/2008 - ANNEX VI - International chemical name

Troclose sodium, dihydrate

CAS number:

51580-86-0

EC number:

220-767-7

Index number:

613-030-01-7

UFI 3DS0-W0J7-D00W-0FRR

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

Use of the substance / the mixture

Water Treatment - Solid Chlorinating Agent

1.3 Details of the supplier who guarantees the manufacturer / supplier:

ts data sheet provides

ARCH WATER PRODUCTS FRANCE BP 219 -

37402 Amboise Cedex - FRANCE phone:

+33 (0) 2 47 23 43 00

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

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DE

Trade name: hth™ GRANUFAST

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framsds-reach.france.euwater@lonza.com

1.4 Emergency number:

Europe >>> NCEC - Tel. +44 (0) 1235 239 670

Austria: Anti-Poison Center T. Number + 43 1 406 43 43
Switzerland - For medical information, emergency number from Tox Info Switzerland "145"
(+41 44 251 51 51).

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**

GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic organisms.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4th H302 Harmful if swallowed. H319 Causes
Eye irrit. 2 serious eye irritation. H335 May cause
STOT SE 3 respiratory irritation.**2.2 Label elements****Labeling according to Regulation (EC) No. 1272/2008**

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

Hazard pictograms

GHS07 GHS09

Signal word danger**Hazardous components for labeling:**

Troclose sodium, dihydrate

Hazard warningsH302 Harmful if swallowed. H319 Causes
serious eye irritation. H335 May cause
respiratory irritation.

H410 - Very toxic for water organisms with long-term effect.

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Trade name: hth™ GRANUFAST

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safety instructions

- P101 If medical advice is needed, have container or label ready.
- P102 Keep out of the reach of children.
- P103 Read all instructions carefully and follow them. Avoid inhalation of dust / smoke / gas / mist / vapor / aerosol.
- P261 Wash hands thoroughly after use. Do not eat, drink or smoke when using. Use only outdoors or in a well-ventilated area. Avoid release to the environment.
- P264 Wash hands thoroughly after use. Do not eat, drink or smoke when using. Use only outdoors or in a well-ventilated area. Avoid release to the environment.
- P270 Avoid release to the environment.
- P271 Avoid release to the environment.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.
- P330 Rinse out mouth.
- P304 + P340 IF INHALED: Remove the person to fresh air and ensure that they can breathe freely.
- P305 + P351 + P338 IF IN EYES: Cautiously with for several minutes Rinse with water. Remove any existing contact lenses if possible. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice / attention.
- P391 Collect spillage.
- P403 + P233 Keep in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents / container under observation of official regulations to special treatment for disposal.

Additional information:

EUH031 Contact with acids liberates toxic gas.
EUH206 Caution! Do not use together with other products as dangerous gases (chlorine) can be released.

2.3 Other hazards

Results of the PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition / information on component en

3.1 Chemical characterization: Substances

CAS-No. designation

51580-86-0 Troclosene sodium, dihydrate

Identification number (s)

EC number: 220-767-7

Index number: 613-030-01-7

SECTION 4: First aid measures

4.1 Description of the first aid measures

General information:

bring those affected to fresh air.

Symptoms of poisoning can only appear after many hours, therefore medical supervision for at least 48 hours after an accident.

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Trade name: hth™ GRANUFAST

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After inhalation: Supply fresh air, consult doctor in case of complaints.

after skin contact: Rinse with warm water.

after eye contact:

Rinse eyes under running water for several minutes with the eyelids open. Consult a doctor if symptoms persist.

after swallowing: Call a doctor immediately.

4.2 Most important acute and delayed symptoms **tome and effects**

Shortness of breath

to cough

nausea

Gastrointestinal complaints

4.3 Information on immediate medical help or special **treatment**

No further relevant information available.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray

Use fire fighting measures that suit the environment.

Unsuitable extinguishing agents for safety reasons: Dry powder.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Hydrogen chloride (HCl)

5.3 Advice for firefighters Special

protective equipment: Put on breathing apparatus.

SECTION 6: Accidental release measures

tongue

6.1 Personal precautions, protective equipment and emergency procedures

Put on breathing apparatus.

6.2 Environmental protection measures:

Retain and dispose of contaminated washing water. Do not discharge into the drains or waterways.

Inform respective authorities when entering in waters or the sewerage. Do not allow to enter sewers / surface or ground water.

6.3 Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to Section 13. Provide adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protective equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace.

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Trade name: hth™ GRANUFAST

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Handling:



NEVER MIX WITH OTHER PRODUCTS, NEVER DISSOLVE BEFORE USE

Information about fire and explosion protection:

The substance / product is oxidising when dry.

7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements for storage rooms and containers:

Store only in the unopened original container. Do not use light metal containers.

Advice on common storage:

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

Further information on storage conditions: Keep container tightly closed.

Storage class:

Classification according to industrial safety regulations **(BetrSichV): -**

7.3 Specific end uses No further relevant information available.

SECTION 8: Limitation and monitoring of the exposure

ion / personal

protective equipment

Additional information on the design of technical and agents:
No further information, see Section 7.

8.1 Control parameters

Components with workplace-related, to be monitored end limit values: Not applicable

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

8.2 Exposure controls Personal protective equipment:

General protective and hygiene measures:

Keep away from food, drink and animal feed. Take off dirty, soaked clothes immediately.

Wash hands before breaks and at the end of work.

Avoid contact with eyes.

Avoid contact with eyes and skin.

Respiratory protection:

Filter P2.

Breathing filter device for short-term or low exposure; Use self-contained breathing apparatus for intensive or prolonged exposure.

Hand protection:

Rubber gloves.



Protective gloves.

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

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Trade name: hth™ GRANUFAST

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Due to a lack of tests, no recommendation can be made on the glove material 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.

Glove material

Chloroprene rubber

PVC gloves.

Nitrile rubber

The selection of a suitable glove does not only depend on the material, but also on other quality features and varies from manufacturer to manufacturer.

Penetration time of the glove material

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

Eye protection:



Tightly fitting protective goggles.

SECTION 9: Physical and chemical properties **th**
9.1 Information on basic physical and general information **chemical properties**

Look:

Shape:

granules

Color:

White

Odor:

after chlorine

Odor threshold:

Not determined.

PH value:

6th

Change of state

Melting point / freezing point: Initial

250 ° C

boiling point and boiling range:

not determined

Flash point:

Not applicable

Flammability (solid, gaseous):

The substance is not flammable.

Ignition temperature:

250 ° C

Decomposition temperature:

250 ° C

Auto-ignition temperature:

Not determined.

Explosive properties:

The product is not explosive.

Explosion limits:

lower:

Not determined.

upper:

Not determined.

Vapor pressure:

Not applicable.

Density at 20 ° C:

1 g / cm³

Bulk density:
relativ density

1,000 kg / m³

Not determined.

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Vapor density Not applicable.
Evaporation rate Not applicable.
Solubility in / Miscibility with Water at 25 ° C: 250 g / l
Partition coefficient: n-octanol / water: Not determined.
Viscosity:
dynamic: Not applicable.
kinematic: Not applicable.
Solid 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:

No decomposition if used as directed.

10.3 Possibility of hazardous reactions

NEVER MIX THIS PRODUCT WITH INORGANIC CHLORINE (HYPOCHLORITE) IN THE SAME CONTAINER

Reacts with alcohols, amines, aqueous acids and alkalis.

Reactions with flammable substances.

Reactions with strong oxidizing agents.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Caution! Do not use together with other products as dangerous gases (chlorine) can be released.

10.6 Hazardous decomposition products:

toxic gases / vapors

Hydrogen chloride (HCl)

Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Classification-relevant LD / LC50 values:

CAS: 51580-86-0 Troclosen sodium, dihydrate

Oral LD50 1400 mg / kg (rat)

Primary irritant effect:

Skin corrosion / irritation

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

Serious eye damage / irritation

Causes serious eye irritation.

Respiratory / skin sensitization

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

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Trade name: hth™ GRANUFAST**CMR effects (carcinogenicity, mutagenicity, etc.)****and toxic to reproduction**

(Continued from page 7)

Germ cell mutagenicity

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

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

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

Specific target organ toxicity after a single exposure **situation**
cause respiratory irritation.**Specific target organ toxicity with repeated ex** **position**

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

Aspiration hazard Based on the available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability** No further relevant information available. No**12.3 Bioaccumulative potential** further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Ecotoxic effects:****Comment:** Very toxic to fish.**Additional ecological information:****General information:**

Water hazard class 2 (self-assessment): clearly hazardous to water. Do not allow to enter the groundwater, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. In water also toxic to fish and plankton.

very toxic to 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 not be disposed together with household garbage. Do not empty into drains.

Uncleaned packaging:**Recommendation:** Disposal according to official regulations.**Recommended cleaning agent:** Water, if necessary with the addition of cleaning agents.**SECTION 14: Transport information****14.1 UN number**
ADR, IMDG

UN3077

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DE

Trade name: hth™ GRANUFAST

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14.2 UN proper shipping name ADR

IMDG

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, NOS (Troclosene sodium, dihydrate)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, NOS (troclosene sodium, dihydrate),
MARINE POLLUTANT

14.3 Transport hazard class

ADR



class

9 (M7) Various dangerous substances and
articles
9

Danger label

IMDG



Class

9 VARIOUS HAZARDOUS SUBSTANCES AND
OBJECTS
9

Label

**14.4 Packing group
ADR, IMDG**

III

**14.5 Environmental hazards:
Marine pollutant:**

Yes
Symbol (fish and tree)
symbol (fish and tree)

**Special marking (ADR):
14.6 Special precautionary measures for
the user**

Warning: Various dangerous substances and
objects
90
FA, SF
A.
SW23 When transported in BK3 bulk container, see
7.6.2.12 and 7.7.3.9.

Kemler number:

EMS number:

Stowage Category

Stowage Code

**14.7 Transport in bulk according to Annex
II of MARPOL73 / 78 and the IBC Code**

Not applicable.

Transport / further information:

ADR

Excepted quantities (EQ):

Limited quantities (LQ)

Excepted quantities (EQ)

E1
5 kg
Code: E1
Maximum net quantity per inner packaging: 30 g.
Maximum net quantity per outer packaging: 1000

Transport category

Tunnel restriction code

g
3
E.

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Trade name: hth™ GRANUFAST

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IMDG

Limited quantities (LQ)

Excepted quantities (EQ)

5 kg

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

UN "Model Regulation":

UN 3077 / UN 3082 - these substances in single or combination packagings contain a net amount per single or inner container of 5 l or less, for liquids or a net total mass per individual or inner container of 5 kg or less, for Solids are not subject to other regulations, provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N. A. G. (TROCLOSE SODIUM, DIHYDRATE), 9, III

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SECTION 15: Regulatory Information

REGULATION (EU) No. 528/2012

Best before: see date on the packaging

After rinsing with swimming pool water, this packaging can be disposed of via waste recycling

15th 1 Safety, health regulations - legal regulations for and U mwe It protection / spec ifi cal the substance or mixture

Directive 2012/18 / EU

Named dangerous substances - ANNEX

Seveso category E1 Hazardous to the aquatic environment

Quantity threshold (in tons) for use in Bet Quantity

threshold (in tons) for use in Bet

I. The fabric is not included.

rubbed the lower class 100 t

rubbed the upper class 200 t

National regulations:

Water hazard class: WGK 2 (self-classification): clearly hazardous to water.

15.2 Chemical safety assessment: A chemical safety assessment was not carried out.

SECTION 16: Other information

The information is based on our current level of knowledge, but does not represent any assurance of product properties and does not establish a contractual legal 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)

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

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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Trade name: hth™ GRANUFAST

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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 Acute

Tox. 4: Acute toxicity - Category 4

Eye irrit. 2: Serious eye damage / eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Acute 1: Hazardous

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

the aquatic environment - long-term aquatic hazard - Category 1

*** Data changed compared to the previous version**

DE