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

Printing date 08.06.2021 Rev. Index: 27.1 Revision: 09.02.2021

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

1.1 Product identifier

Trade name: hth™ BLACKAL SHOCK

Article number: 11109 hth UFI: N4H1-10FE-K001-AX5U

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 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

Algicide

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

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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 >>> ACEAN (Arch Chemicals Emergency Action Network) - Tel. +1 423 780 2970}

CALL A LOCAL NATIONAL POISON CONTROL UNIT

FOR UK CONTACT NCEC Tel 01865 407 333

SECTION 2: Hazards identification

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



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

H400 Very toxic to aquatic life. Aquatic Acute 1

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

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. Hazard pictograms





GHS05 GHS09

Signal word Danger

Hazard-determining components of labelling:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

2-aminoethanol

Copper sulphate pentahydrate

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(Contd. of page 2) **Hazard statements** H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects. 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. P260 Do not breathe mist/vapours/spray. P264 Wash thoroughly after handling. 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+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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P310 P363 P391 Wash contáminated clothing before reuse. Collect spillage. P405 Store locked up. P501 Dispose of contents/container to special treatment scheme according to official regulations. 2.3 Other hazards Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
EINECS: 270-325-2	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	25-<50%

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EINECS: 205-483-3	CAS: 7758-99-8 EINECS: 231-847-6 Index number: 029-023-00-4	Copper sulphate pentahydrate Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ♦ Acute Tox. 4, H302	Contd_of page 3) 2.5-<10%
XXXX	EINECS: 205-483-3 Index number: 603-030-00-8	Skin Corr. 1B, H314;	2.5-<10%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Immediately remove any clothing soiled by the product.

After inhalation

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

After skin contact 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.

After swallowing

Rinse out mouth and then drink plenty of water. Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

Use fire extinguishing methods suitable to surrounding conditions. 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.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing

Mount respiratory protective device.

Wear protective équipment. Keep unprotected persons away.

6.2 Environmental precautions:

Prevent from spreading (e.g. by damming-in or oil barriers). 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.

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Handling



DO NOT MIX WITH OTHER PRODUCTS DO NOT DILUTE BEFORE USE

Information about fire - and explosion protection: 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.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Protect from frost.

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Store receptacle in a well ventilated area.

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:

CAS: 141-43-5 2-aminoethanol

Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm

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.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection: 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:

Synthetic rubber gloves



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

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Material of gloves

Butyl rubber, BR Nitrile rubber, NBR

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid Colour: Blue

Odour: Characteristic Odour threshold: Not determined.

pH-value at 20 °C: 9.5

Change in condition

Melting point/freezing point: undetermined

Initial boiling point and boiling range: 100 °C

Flash point: Not applicable Flammability (solid, gaseous) Not applicable.

Ignition temperature: 305 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

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Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Not determined. Lower: Not determined. Upper:

Vapour pressure at 20 °C: 23 hPa

1.072 g/cm³ Not determined. Density at 20 °C: Relative density Vapour density Not determined. **Evaporation rate** Not determined.

Solubility in / Miscibility with

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

Viscosity:

dynamic: Not determined. kinematic: Not determined.

Solvent content:

12.1 % 46.9 % Organic solvents: Water: 0.0 % 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:

- No decomposition if used according to specifications.

 10.3 Possibility of hazardous reactions No dangerous reactions known

 10.4 Conditions to avoid No further relevant information available.
- **10.5** Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50	values relev	ant for classification:
Oral	LD50	3,813 mg/kg (rat)
Dermal	LD50	>4,090 mg/kg (rabbit)

CAS: 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides			
Oral	LD50	240 mg/kg (rat)	
Dermal	LD50	1,560 mg/kg (rat)	
CAS: 7758	8-99-8 Coppe	r sulphate pentahydrate	
Oral	LD50	300 mg/kg (rat)	
Dermal	LD50	1,000 mg/kg (rat)	
Inhalative	LC50 - 4 hrs	1.48 mg/l (rat)	
CAS: 141-43-5 2-aminoethanol			
Oral	LD50	2,050 mg/kg (rat)	
Dermal	LD50	1,000 mg/kg (rbt)	

Primary irritant effect: Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage. Respiratory or skin sensitisation

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

Additional toxicological information:

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.

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.



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SECTION 12: Ecological information

12.1 Toxicity

14.1	TOXICITY		
Aqua	tic toxicity:		
Oral	LC50 - 96 hrs	0.572 mg/l (bluegill sunfish)	
		0.145 mg/l (rainbow trout)	

Oral LC50 - 96 hrs 0.75-0.84 mg/l (rainbow trout) CE50 - 48 hrs 0.024 mg/l (daphnia magna)

12.2 Persistence and degradability No further relevant information available.

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:

General notes:

Generally not hazardous for water.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Also poisonous for fish and plankton in water bodies.

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.

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SECTION 14: Transport information 14.1 UN-Number ADR, IMDG, IATA UN3265 14.2 UN proper shipping name 3265 CORROSIVE LIQUID, ACIDIC ADR ORGANIC, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), ENVIRONMENTALLY HAZARDOUS CORROSIVE LIQUID, ACIDIC, ORGANIC, **IMDG** N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), MARINE POLLUTANT CORROSIVE LIQUID, ACIDIC, ORGANIC, **IATA** N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides) 14.3 Transport hazard class(es) **ADR** Class 8 (C3) Corrosive substances. Label **IMDG** Class 8 Corrosive substances. Label **IATA** Class 8 Corrosive substances. Label

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Yes

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F-A,S-B Acids

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14.4 Packing group ADR, IMDG, IATA

14.5 Environmental hazards:

Marine pollutant:

Special marking (ADR):

14.6 Special precautions for user Hazard identification number (Kemler code):

EMS Number:

Segregation groups

Stowage Category

Stowage Code

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code

Not applicable.

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

Warning: Corrosive súbstances.

SW2 Clear of living quarters.

Transport/Additional information:

ADR

E1 Excepted quantities (EQ): Limited quantities (LQ) 5L

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

Maximum net quantity per inner packaging: 30

3 E

Maximum net quantity per outer packaging:

1000 ml

Transport category

Tunnel restriction code

Limited quantities (LQ)

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging:

1000 ml

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UN "Model Regulation":

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL CHIODEDEC) ALKYLDIMETHYL, CHLORIDES), 8, III, 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 None of the ingredients is listed.

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

None of the ingredients is 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.

Relevant phrases

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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Tel: +1 203 229 3449

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

ATA: International Air Transport Agreement

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

PBT. Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 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
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 compared to the previous version altered.