

MATERIAL SAFETY DATA SHEET - HYDROCLENZ UNITS

SECTION 1 – IDENTIFICATION & USE

- 1.1 PRODUCT IDENTIFIER :** HYDROCLENZ
- 1.2 USES** Used for the protection of stored water in conjunction with a recognised water management plan for the Control of pathogenic bacteria in water systems.
- 1.3 Supplier of the SDS** Safewater Limited
Unit 7 Sovereign Centre, Farthing Road Ind. Estate, Ipswich, IP1 5AP
Tel: +44 1473 462046 email: sales@safewater.ltd.uk
- 1.4 Emergency Contact:** +44 1473 462046 (Office Hours Only)

SECTION 2 – HAZARD IDENTIFICATION

- 2.1 CLASSIFICATION** Not Applicable
- 2.2 LABEL ELEMENTS** Not Applicable
- 2.3 OTHER HAZARDS** Non flammable but PVC of outer tube or PE sachet can cause hazard when subjected to fire through other means. This would only be possible prior to or after use, i.e. in the transport, handling and storage phases.

SECTION 3 – COMPOSITION & INGREDIENTS

- CHEMICAL COMPOSITION** Aluminium Oxide Al₂O₃, Amorphous Silica SiO₂, Titanium Dioxide TiO₂, Zirconium Dioxide ZrO₂, Ceramic, Silver Ag, Copper Cu.
- CAS No. & Proportion
Aluminium Oxide 1344-28-1 21%, Amorphous Silica 7631-86-9 51%, Titanium Dioxide 13463-67-7 3%, Zirconium Dioxide 1314-23-4 17%, Ceramic 66402-68-4 8%
Silver 7440-50-8, Copper 7440-50-8,
- GENERAL CHARACTERISTICS** A mixture of white and brown spheres and a woven matrix of silver coated wire contained in a slotted PVC tube. Non-flammable, non-volatile, non-corrosive. Becomes active in water in a way beneficial to human health
- CLASSIFICATION** Non Corrosive, Insoluble, Honeycombed Spheres and Silver Coated Copper Matrix.

SECTION 4 – FIRST AID MEASURES

- 4.1 FIRST AID**
- SWALLOWED:** Not applicable to finished product. A large amount of dust would need to be swallowed to cause any health problem at which point a doctor should be consulted.
- EYE:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open while washing. If pain persists seek immediate medical assistance.
- SKIN:** Remove any contaminated clothing and wash the area of skin contact with soap or soft detergent along with sufficient amount of water for 15 minutes. Completely wash and dry contaminated clothes before re-using.
- INHALED:** Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing labored ensure airways are clear and administer oxygen. If breathing has stopped apply artificial respiration at once. Seek immediate medical assistance.
- 4.2 SYMPTOMS & EFFECTS**
- HEALTH EFFECTS** None
- ACUTE EFFECTS** None
- SWALLOWED:** Not Applicable
- EYE:** Not Applicable
- SKIN:** Would only be a problem if significant amount of dust occurs, which is extremely unlikely.
- INHALED:** Would only be a problem if significant amount of dust occurs, which is extremely unlikely.
- CHRONIC EFFECTS** No information available.
- 4.3 IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED**
- ADVICE TO DOCTOR** Treat symptomatically

SECTION 5 – FIRE MEASURES

- 5.1 EXTINGUISHING MEDIA** Suitable extinguishing media for the surrounding fire should be used. Use dry chemical, foam, water, or carbon dioxide to extinguish fire.

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5.2 SPECIAL HAZARDS

Non flammable but PVC of outer tube or PE sachet can cause hazard when subjected to fire through other means. This would only be possible prior to or after use, i.e. in the transport, handling and storage phases.

5.3 ADVICE TO FIRE

FIGHTERS:

Fire fighters to wear self contained breathing apparatus and full protective clothing when fighting fire

GENERAL:

No fire hazard unless outer tube is subjected to fire from other source. Will not continue to burn after ignition without an external fire source. When forced to burn the major gaseous products of combustion of PVC are carbon monoxide, carbon dioxide and hydrogen chloride. Move products out of fire area if safe to do so. Cool outer tube if feasible. Stay upwind of fumes, keep out of low areas.

SECTION 6 – ACCIDENTAL RELEASE MEASURES (SPILLS)

Not Applicable as only solids involved.

SECTION 7 – HANDLING & STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Unclassified. None

7.2 STORAGE

Store in a dry, well-ventilated place.

SECTION 8 – PERSONEL PROTECTION & EXPOSURE LIMITS

8.1 CONTROL PARAMETERS

Not applicable.

8.2 EXPOSURE CONTROL:

Avoid skin and eye contact and inhalation of dust.

Respiratory

Protection only required if significant amounts of dust are given off by product, which is extremely unlikely.

Protection:

Body Protection:

Protection only required if significant amounts of dust are given off by product, which is extremely unlikely.

Eye Protection:

Only required if significant amounts of dust are given off by product. Safety Glasses or goggles to EN 166

Hand Protection:

Gloves only required if significant amounts of dust are given off by product.

SECTION 9 – PHYSICAL PROPERTIES

APPEARANCE:

White and brown spheres and silver coated matrix contained in a slotted PVC tube. Non-flammable, non-volatile, non-soluble in liquid.

MELTING POINT:

Not established – avoid subjecting to temperatures above 250°C

BOILING POINTS:

Not Applicable

VAPOUR PRESSURE (20°C):

Not Applicable

SPECIFIC GRAVITY (25°C):

Not Applicable

FLASH POINT (OPEN CUP):

Not Applicable

EXPLOSION LIMITS:

No data available

SOLUBILITY IN WATER:

Non-Soluble in water

AUTOIGNITION TEMP:

No data available

VAPOUR DENSITY:

Not applicable

pH:

7 ± 0.5

STORAGE COLOUR CODE:

Not Applicable

SECTION 10 – STABILITY & REACTIVITY

10.1 REACTIVITY:

Inert in the dry state. Oxidising and local ionizing reaction when immersed in water.

10.2 STABILITY:

Highly stable

10.3 HAZARDOUS REACTIONS

None

10.4 CONDITIONS TO AVOID

None

10.5 INCOMPATIBLE MATERIALS

None

10.6 DECOMPOSITION PRODUCT

n/a

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING:

Non toxic

SECTION 12 – ECOLOGICAL INFORMATION

12.1 ECOTOXICITY:

Non toxic when PVC or PE container is disposed of in accordance with Local Regulations.

12.2 BIODEGRADABILITY:

The PVC container & sachet materials are not biodegradable. The spheres are not biodegradable but can be beneficial to eco systems.

12.3 BIOACCUMULATION:

No data available

12.4 MOBILITY IN SOIL

n/a

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**12.5 PBT & vPvB
ASSESSMENT
GENERAL:**

This product is not identified as a PBT/vPvB substance

No ecological problems are expected when the product is handled and used with due care

SECTION 13 – DISPOSAL

Dispose of in accordance with Federal, State or Local regulations. The PVC tube or PE sachet should be re-cycled whenever the facilities exist. After use the spheres are not harmful to the environment.

SECTION 14 – TRANSPORT

This product is not considered Dangerous for the purposes of the International Regulations for Transport.

14.1 U.N. NO. :	None Allocated
14.2 UN PROPER SHIPPING NAME	None Allocated
14.3 TRANSPORT HAZARD CLASS :	None Allocated
14.4 PACKAGING GP. :	None Allocated
14.5 ENVIORNMENTAL HAZARDS	Environmentally Hazardous : No Marine Pollutant: No
14.6 SPECIAL PRECAUTIONS FOR USER	None

SECTION 15 – REGULATORY INFORMATION

None

SECTION 16 – OTHER INFORMATION

Legal disclaimer: The information contained herein is based on the present state of knowledge. It characterizes the product with regard to the appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above products.

Prepared in accordance with Commission Regulation (EU) No. 453/2010