
SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: **Total Hardness Plus**
Datasheet Number: 024 1. 2. 0
Reach Registration Number: 01-2119494219-28

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

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Plastica Ltd
Address of Supplier: Perimeter House
Napier Road
St Leonards-on-Sea
East Sussex TN38 9NY
United Kingdom
Telephone: +44 (0) 1424 857857
Fax:
Responsible Person:
Email: info@plasticapools.com

1.4 Emergency telephone number

0800 043 0891 - Technical
0800 043 0892 - Emergency

2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Eye Irrit. 2, H319
- Classification (67/548/EEC, 1999/45/EC)
- Xi; R36
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



- Signal Word: Warning
- Symbols: GHS07

Hazard phrases

- Causes serious eye irritation.

2 Hazards identification (....)

Precautionary Phrases

- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

- Mildly irritating to eyes

3 Composition/information on ingredients

3.1 Substances

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Calcium Chloride	>99%	10043-52-4	223-140-8	H319 R36	GHS07 Xi

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Give plenty of water to drink

4.2 Most important symptoms and effects, both acute and delayed

- Causes irritation

4.3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

- See Section 10.6

5.3 Advice for firefighters

- Wear protective clothing as per section 8

6 Accidental release measures

- 6 .1 Personal precautions, protective equipment and emergency procedures
- Wear protective clothing as per section 8
- 6 .2 Environmental Precautions
- Eliminate all ignition sources if safe to do so.
- 6 .3 Methods and material for containment and cleaning up
- Remove by mechanical means
 - Collect as much as possible in clean container for reuse or disposal
 - Flush spill area with copious amounts of water
- 6 .4 Reference to other sections
- See Section 7 & 8
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7 Handling and storage

- 7 .1 Precautions for safe handling
- Ensure adequate ventilation
 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Wash thoroughly after handling.
- 7 .2 Conditions for safe storage, including any incompatibilities
- Store in a dry place. Store in a closed container.
 - Store in a well-ventilated place. Keep cool.
- 7 .3 Specific end use(s)
- No information available.
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8 Exposure controls/personal protection

- 8 .1 Control parameters
- No information available
- 8 .2 Exposure controls
- Engineering controls should be provided to prevent the need for ventilation

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear PVC gloves
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- Wear apron or other light protective clothing



Respirator



Goggles



Gloves



Suit

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Solid, white, powder
- pH 9-10.5 at 10 % concentration
- Boiling point >1600 °C
- Vapour pressure - not applicable
- Vapour density - not known
- Melting point 772 °C
- Completely soluble in water
- Specific gravity 2.15 g/cm³
- Not flammable but will support combustion
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable

9.2 Other information

- No information available

10 Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- No decomposition if stored normally.

10.3 Possibility of hazardous reactions

- Generates heat on addition to water (exothermic)

10.4 Conditions to avoid

- Avoid contact with moisture

10.5 Incompatible materials

- Incompatible with acid
- Generates heat on addition to water (exothermic)
- Incompatible with alkali metals
- Incompatible with alkaline earth metals

10.6 Hazardous Decomposition Products

- Decomposition products include chlorine.
- Decomposition products may include hydrogen

11 Toxicological information

11.1 Information on toxicological effects

- Can cause damage to the eyes
- LD50 (oral,rat) 1000 mg/kg

11 Toxicological information (....)

Inhalation

- No information available

Contact with skin

- May cause irritation

Contact with eyes

- Can cause damage to the eyes

Ingestion

- May cause nausea/vomiting

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available
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12 Ecological information

12 .1 Toxicity

- LC50 (fish) >1000 mg/l (96 hr)
- EC50 (Daphnia magna) 144 mg/l (48 hr)
- IC50 (algae) 3130 mg/l (96 hr)

12 .2 Persistence and degradability

- No information available

12 .3 Bioaccumulation Potential

- No information available

12 .4 Mobility in soil

- No information available

12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12 .6 Other Adverse Effects

- See Section 12.1
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13 Disposal considerations

13 .1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
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13 Disposal considerations (....)

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
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14 Transport information

14.1 UN Number

N/A

14.2 UN Proper Shipping Name

N/A

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14.5 Environmental hazards

- Presents no hazard to the environment

14.6 Special precautions for user

- See Section 7

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	N/A	ADR UN No.:	N/A
ADR Hazard Class:	N/A	ADR Packing Group:	N/A
Tunnel Code:	N/A		

Sea (IMDG)

Proper Shipping Name:	N/A	IMDG UN No.:	N/A
IMDG Hazard Class.:	N/A	IMDG Pack Group.:	N/A

Air (ICAO/IATA)

Proper Shipping Name:	N/A	ICAO Un No.:	N/A
ICAO Hazard Class.:	N/A	ICAO Packing Group.:	N/A

15 Regulatory information

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

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK

15.2 Chemical Safety Assessment



16 Other information

Text of R and S phrase codes used in this safety data sheet:- H319: Causes serious eye irritation.; R36: Irritating to eyes.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet.

However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.