

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier Stain & Scale Inhibitor

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

Uses: To prevent staining of pools and spas.

Restrictions: At this time we do not have information on use restrictions

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081

Fax: +44 (0) 8712 229083

E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours)

+44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Target Organs	Hazard Statements
Skin Irrit	Category 1		H314
Eye Irrit	Category 1		H319

For the full text of the H statements mentioned in this section see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Irritant (Xi)	R36/38

For the full text of the R phrases mentioned in this section see Section 16.

Most important adverse effects

Human Health: See section 11 for toxicological information

Physical & Chemical Hazards: See section 9 for physicochemical information

Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



Signal word: Warning

Hazard statements: H315 Causes skin irritation
H319 Causes serious eye irritation

Prevention P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read label before use
P261 Avoid breathing mist

Response P280 Wear protective gloves and eye/face protection
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
P363: Wash contaminated clothing before reuse

Hazardous components which must be listed on the label

1-hydroxyethylidene-1,1-diphosphonic acid

2.3 Other Hazards



No other information is available

Trade Name: Stain & Scale Inhibitor

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Liquid
Mixture of substances listed below with nonhazardous additions

Chemical Name		CAS No:	EINECS	Amount %
1-hydroxyethylidene-1,1-diphosphonic acid	C 	2809-21-4	220-552-8	2.5 - 10%
Polymaleic Acid	Xi 	67-63-0	26099-09-2	2.5 - 10%

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If Inhaled: Remove casualty to fresh air. Consult a doctor in case of complaint.

In case of skin contact: Wash off immediately with plenty of soap & water. If irritation appears seek medical advice

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Consult a doctor

If swallowed: Clean mouth with water and drink plenty of water. DO NOT INDUCE VOMITING. Consult a doctor immediately

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available.
Effects: No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat symptomatically

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Suitable extinguishing media for the surrounding fire should be used.
Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: No information available

5.3 Advice for fire-fighters

Special protective equipment: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).

Further Information: Do not inhale explosion gases or combustion gases

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. For personal protection see Section 8.

6.2 Environmental precautions

Do not discharge into drains or rivers.
Spillages into water courses must be alerted to the National River Authority

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) Keep in suitable closed containers for disposal.

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

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Do not mix with other products in their concentrated form.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Prevent any seepage into the ground

Advice on protection against fire and explosion: No special measures required

Further information: Store in cool, dry conditions in well sealed receptacles

Advice on common storage: Store away from metals. Store away from oxidising agents

Storage Temperature: No further information available

7.3 Specific end uses

Specific use(s) No information available

8. Exposure control/personal protection

8.1 Control parameters

Regulatory Basis: EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8. Exposure control/personal protection**8.2 Exposure controls**

Engineering measures Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Respiratory protection Advice: Self contained breathing apparatus must be available in case of emergency

Hand protection Advice: Gloves
Material: No information available

Eye protection Advice: Tightly fitting safety goggles

Skin protection Advice: Protective clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form: Liquid
Colour: Orange
Odour: Mild
Odour Threshold: Currently we do not have any information from our supplier about this.
pH @ 20°C: <2
Melting Point: Undetermined
Boiling point: 100°C
Flash point: N/A
Evaporation rate: Currently we do not have any information from our supplier about this.
Flammability (solid, gas): Currently we do not have any information from our supplier about this.
Vapour pressure: Currently we do not have any information from our supplier about this.
Relative vapour density: Currently we do not have any information from our supplier about this.
Density @ 20°C: 1.04 g/cm³
Water solubility: Fully miscible
Partition coefficient:n-octanol/water: Currently we do not have any information from our supplier about this.
Ignition temperature: Currently we do not have any information from our supplier about this.
Thermal decomposition: Currently we do not have any information from our supplier about this.
Viscosity, kinematic: Currently we do not have any information from our supplier about this.
Explosive properties: Currently we do not have any information from our supplier about this.
Oxidising properties: Product is not an oxidiser

9.2 Other Information No further information available

10. Stability and reactivity

10.1 Reactivity No information available
10.2 Chemical stability No decomposition if stored and applied as directed
10.3 Possibility of hazardous reactions No dangerous reactions known
10.4 Conditions to avoid Do not store above 40°C
10.5 Incompatible materials Strong bases, Strong oxidising agents
Do not mix with other chemical formulations in their concentrated form.
10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide, Phosphorous oxides (P205)
Nitrogen oxides

11. Toxicological Information**11.1 Information on toxicological effects****Component:** 1-hydroxyethylidene-1,1-diphosphonic acid **CAS No:** 2809-21-4

Value type	Value	Species
LD50 (oral)	>2000 mg/kg	Rat
LD50 (dermal)	>5000 mg/kg	Rabbit

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes**on the eye:** Severely irritating to eyes**Sensitization:** No sensitizing effects known**Carcinogenic** No further information available**Mutagenic** No further information available**Further Information:****Ingestion:** Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.**12. Ecological Information****12.1 Toxicity** Harmful to fish and other aquatic life.**12.2 Persistence and degradability****Persistence** No further information available**Degradability** No further information available**12.3 Bioaccumulative potential** Completely water soluble; bioaccumulation is unlikely.**12.4 Mobility in soil** No further information available**12.5 Results of PBT and PvB** No further information available**12.6 Other adverse effects**

Must not reach sewage water or drainage ditch undiluted or unneutralized. Water hazard class 1 (German Regulation) (self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal Considerations**13.1 Waste treatment methods**

Product: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging: Empty contaminated packaging's thoroughly. They can be recycled after thorough and proper cleaning. Packaging's that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue No: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

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14. Transport Information

- 14.1 UN Number** Not applicable
- 14.2 UN proper shipping name** Not applicable
- 14.3 Transport hazard class(es)** Not applicable
- 14.4 Packaging Group** Not applicable
- 14.5 Environmental hazards**
- | | |
|---------------------------|----------------|
| Environmentally Hazardous | Not applicable |
| Marine Pollutant | No |
- 14.6 Special precautions for user** No further information available
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
No further information available

15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.**
- 15.2 Chemical Safety Assessment** A chemical Safety Assessment has not been carried out.

16. Other information

Full text of R-phrases referred to under sections 2 and 3
R36/38 Irritating to eyes and skin

Full text of H-statements referred to under sections 2 and 3
H315 Causes skin irritation
H320 Causes eye irritation

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

• **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
- ICAO: International Civil Aviation Organization
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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16. Other information

• Abbreviations and acronyms:

EINECS European Inventory of Existing Commercial Chemical Substances.
CAS: Chemicals Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Revision	Date	By	Amendment
1	15/04/10	Linda Brueford	Created
2	28/11/11	Linda Brueford	Updated to 2011 European requirements and other minor editorial