

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

1.1 Product Identifier

Trade Name: Ultimate Water Clarifier

Other Names: Cationic Liquid

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

Uses: Flocculant for the Clarification of Swimming Pool and Spa water

Restrictions: At this time we do not yet have information on identified 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

The product is not classified according to the CLP regulations

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

Not applicable

Label elements

Labelling according to Regulation (EC) No 1272/2008

The product does not have to be labelled due to the calculation procedure of the 'General Classification guideline for preparations of the EU' in the latest version

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Liquid

Chemical Name	Identification Numbers		Amount %
	CAS-No.	EC-No.	
An aqueous solution of polydiallyldimethylammonium chloride			

4. First Aid measures

4.1 Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down.

(Continued on Page 2)

4. First Aid measures

4.1 Description of first aid measures

Inhalation: Move to fresh air. Allow patient to assume the most comfortable position and keep warm. Keep at rest until fully recovered. Give drinks of water if required.

Ingestion: Rinse out mouth and then drink plenty of water.

Skin contact: Immediately rinse with water. If irritation persists consult a doctor.

Eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No symptoms

Ingestion: There may be irritation of the throat

Skin contact: There may be mild irritation at the site of contact

Eye contact: There may be mild irritation and redness

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: Use extinguishing measures that are appropriate to the surrounding environment. (dry chemical, CO₂, water spray or foam).

Unsuitable extinguishing media: No information available.

Specific Hazards during fire fighting: In combustion emits toxic fumes

5.3 Advice for fire-fighters

Special protective equipment Wear self contained breathing apparatus. Wear protective clothing to prevent contact with eyes.

Further Information: No information available.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing. Turn leaking containers leaktight up to prevent the escape of liquid.

6.2 Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or water bodies. Contain the spillage using bunds.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up. Stop leak if possible without risk. Absorb vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

6.4 Reference to other sections

For personal protection see section 8
For disposal see section 13

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling:	Prevent formation of aerosols
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 break and at the end of the workday

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers:	Keep in original containers. Store in a dry atmosphere.
Advice on protection against fire and explosion:	Currently we do not have any information from our supplier about this.
Further information on storage	No further data available
Advice on common storage:	Currently we do not have any information from our supplier about this.

7.3 Specific end uses

Specific use(s)	For the flocculation of pool/spa water
-----------------	--

8. Exposure control/personal protection**8.1 Control parameters**

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical and biological agents.
Contains no substances with occupational exposure limit values

8.2 Exposure controls

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

Personal protective equipment

Respiratory protection	Advice:	No recommendation made
Hand protection	Advice:	Use suitable protective gloves if risk of skin contact.
Glove thickness:		No recommendation
Material:		No recommendation
Gloves:		No recommendation
Eye protection	Advice:	Tightly fitting safety goggles. Ensure eyebath is to hand
Skin and body protection	Advice:	Protective clothing with elasticised cuffs and closed neck

Environmental exposure controls

General advice: Good personal hygiene practises always advisable when working with chemicals.

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

Form:	Viscous Liquid
Colour:	Blue
Odour:	Characteristic Odour
Odour Threshold:	Currently we do not have any information from our supplier about this.
pH @ 20°C:	5 - 6
Solidification point	Currently we do not have any information from our supplier about this.
Boiling point/boiling range:	Undetermined
Melting point/melting range:	Currently we do not have any information from our supplier about this.
Flash point:	Not applicable
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.
Upper explosion limit:	Currently we do not have any information from our supplier about this.
Lower explosion limit:	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:	Currently we do not have any information from our supplier about this.
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:	Product is not explosive.
Oxidising properties:	Currently we do not have any information from our supplier about this.

9.2 Other Information

Specific gravity at 20°C	1.02 g/cm ³
--------------------------	------------------------

10. Stability and reactivity**10.1 Reactivity**

Advice:	Stable under recommended transport or storage conditions
---------	--

10.2 Chemical stability

Advice:	No decomposition if stored and applied as directed.
---------	---

10.3 Possibility of hazardous reactions

Hazardous reactions:	Decomposition may occur on exposure to conditions or materials listed below
----------------------	---

10.4 Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.
---------------------	---

10.5 Incompatible materials

Materials to avoid	Strong oxidising agents. Strong acids
--------------------	---------------------------------------

10.6 Hazardous decomposition products

Hazardous decomposition products:	In combustion emits toxic fumes
-----------------------------------	---------------------------------

Trade Name: Ultimate Water Clarifier

11. Toxicological Information

11.1 Information on toxicological effects

Primary irritant effect:

on the skin: There may be mild irritation at the site of contact
on the eye: There may be irritation and redness

Sensitization: Currently we do not have any information from our supplier about this.

Other relevant toxicity information: No specific symptoms noted.

12. Ecological Information

12.1 Toxicity

Remarks: Not applicable

12.2 Persistence and degradability

Remarks: Biodegradable

12.3 Bioaccumulative potential

Remarks: No bioaccumulation potential

12.4 Mobility in soil

Remarks: Readily absorbed into soil

12.5 Results of PBT and PvB assessment

Remarks: This substance is not identified as a PBT substance

12.6 Other adverse effects

Remarks: Negligible ecotoxicity.

13. Disposal Considerations

13.1 Waste treatment methods

Product: Disposal should be in accordance with local or national regulations

Contaminated packaging: Disposal should be in accordance with local or national regulations

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.

14. Transport Information

14.1 UN Number Not applicable

14.2 UN proper shipping name POLYDIALLYLDIMETHYLAMMONIUM CHLORIDE

14.3 Transport hazard class(es) Not applicable

14.4 Packaging Group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user Not applicable

15. Regulatory information

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

This product is not classified according to the EU regulations

15.2 Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

Full text of H-statements referred to under sections 2 and 3

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

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 europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Reglement 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
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	07/03/07	Linda Brueford	Created
2	23/06/11	Linda Brueford	GHS label elements added and other minor editorial amendments
3	18/07/12	Linda Brueford	Section 4, 11 and 12 and other minor editorial amendments.