

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

### 1.1 Product Identifier dialuminium chloride pentahydroxide

Trade Name: Heavy Duty Clarifier  
CAS No: 12042-91-0  
EC No: 234-933-1

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

Uses: Clarification of swimming Pool Water  
Restrictions: At this time we do not yet have information on identified uses.

### 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](mailto: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

### 2.2 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

### 2.3 Other Hazards

## 3. Composition/information on ingredients

### 3.1 Substances

Chemical nature: Liquid

Chemical Name	Identification Numbers	Amount %
dialuminium chloride pentahydroxide	CAS No: 12042-91-0 EC No: 234-933-1	

**4. First Aid measures**

**4.1 Description of first aid measures**

General Advice: No special measures required

If inhaled: Remove to fresh air. Consult doctor in case of complaints

In case of skin contact: Wash off immediately with soap and plenty of water.

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

If swallowed: Rinse mouth with water and then drink plenty of water. If symptoms persist call a doctor

**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

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: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

Unsuitable extinguishing media: Currently we do not have any information from our supplier about this.

**5.2 Special hazards arising from the substance or mixture**

Specific Hazards during fire: None known

**5.3 Advice for fire-fighters**

Special protective equipment: Wear self contained breathing apparatus (SCBA) and full turn out gear.

Further Information: Wear full protective clothing and self contained breathing apparatus.

**6. Accidental release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions: Wear appropriate clothing.

**6.2 Environmental precautions**

Environmental precautions: Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation

**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, sawdust).

**6.4 Reference to other sections**

See Section 1 for emergency contact information

See Section 7 for information on Personal protective equipment

See section 13 for waste treatment information

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

Advice on safe handling:	No special measures required
Hygiene measures:	Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feed stuffs. When using do not eat and drink.

**7.2 Conditions for safe storage, including any incompatibilities.**

Requirements for storage areas and containers:	Prevent seepage into ground.
Advice on protection against fire and explosion:	No special measures required
Further Information:	No further information available
German storage class:	Currently we do not have any information from our supplier about this.
Storage Temperature:	Currently we do not have any information from our supplier about this.

**7.3 Specific end uses**

Specific use(s)	Clarification of swimming Pool Water
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**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.

Regulatory Basis:	UK. EH40 Workplace Exposure Limits (WELS)
Regulatory List:	Time Weighted Average (TWA):
Value type:	Dust
Total dust:	10 mg/m <sup>3</sup>
Respirable dust:	4 mg/m <sup>3</sup>

**8.2 Exposure controls****Engineering measures****Personal protective equipment**

Respiratory protection	Advice:	No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10mg/m <sup>3</sup> .
Hand protection	Advice:	Use protective gloves made of rubber, neoprene or PVC
Eye protection	Advice:	Chemical goggles
Skin and body protection	Advice:	Wear appropriate clothing to prevent repeated or prolonged skin contact

**Environmental exposure controls**

General advice:	Dispose of in accordance with all applicable local and national regulations,
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**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour Threshold:	Currently we do not have any information from our supplier about this.
pH @ 20°C:	7 - 8
Freezing point:	Currently we do not have any information from our supplier about this.
Boiling point:	100°C
Flash point:	Currently we do not have any information from our supplier about this.
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:	23 hPa
Relative vapour density:	Currently we do not have any information from our supplier about this.
Density @ 20°C:	1g / cm <sup>3</sup>
Water solubility:	Fully miscible
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.
Oxidising properties:	Currently we do not have any information from our supplier about this.

**9.2 Other Information**

No further information available

**10. Stability and reactivity****10.1 Reactivity**

Advice: No information available

**10.2 Chemical stability**

Advice: No decomposition if stored and applied as directed

**10.3 Possibility of hazardous reactions**

Hazardous reactions: None reasonably foreseeable

**10.4 Conditions to avoid**

Conditions to avoid: Currently we do not have any information from our supplier about this.

**10.5 Incompatible materials**

Materials to avoid: Currently we do not have any information from our supplier about this.

**10.6 Hazardous decomposition products** None known**11. Toxicological Information****11.1 Information on toxicological effects**

		<b>Irritation</b>
Skin	No irritant effect	
Eyes	No irritating effect	
		<b>Sensitisation</b>
Remarks:	No sensitizing effects known	
Other relevant toxicity:	Not subject to classification according to the calculation method of the General EU Guidelines for preparations as issued in the latest version.	

**Trade Name:** Heavy Duty Clarifier

## 12. Ecological Information

### 12.1 Toxicity

#### Acute toxicity

Remarks: No information available

### 12.2 Persistence and degradability

#### Biogradability

Remarks: Inherently biodegradable

### 12.3 Bioaccumulative potential

#### Bioaccumulation

Remarks: Product is not expected to bioaccumulate

### 12.4 Mobility in soil

#### Mobility

Remarks: No information available

### 12.5 Results of PBT and PvB

#### Results of PBT and PvB assessment

Remarks: No information available

### 12.6 Other adverse effects

#### Additional ecological information

Remarks: 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. Must not reach sewage water or drainage ditch undiluted or unneutralized.

## 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. Packagings 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.

## 14. Transport Information

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|---|----------------|
| 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  | Not applicable |
| 14.6 Special precautions for user   | Not applicable |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | 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

S(1/2)	Keep locked up and out of the reach of children
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S46	If swallowed, seek medical advice immediately and show this container or label

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

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	09.01.08	Linda Brueford	Created
2	24.06.11	Linda Brueford	GHS label elements added, updated to European requirements and other minor editorial amendments