

**Ultimate Phos Granules**

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

**1.1 Product Identifier** Ultimate Phos Granules

**1.2 Relevant Identified uses of the substance or mixture and uses advised against**  
 Uses: Removes phosphates from water.

**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 +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) 3712 229084 ( 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 Statements
Met.Corr 1	H290
Skin Sens. 1:	H317
Eye Dam. 1:	H318
Aquatic Chronic 2:	H411




For the full text of the H statements 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:     
 GHS05: GHS07: GHS09

Signal word: Danger

Hazard statements: H290 May be corrosive to metals  
 H317 May cause an allergic skin reaction  
 H318 Causes serious eye damage  
 H411 Toxic to aquatic life with long lasting effects

Precautionary statements: P102 Keep out of reach of children  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+352: IF ON SKIN: Wash with plenty of water/shower.  
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+313: If skin irritation or rash occurs: Get medical advice/attention.  
 P405 Store in corrosive resistant container with resistant inner liner.  
 P501: Dispose of contents/container in accordance with local regulations.

**2.3 Other Hazards**

PBT: This product is not identified as a PBT/vPvB substance.

**3. Composition/information on ingredients**

**3.1 Mixture**

LANTHANUM CHLORIDE, ANHYDROUS - REACH registered number(s): 01-2119452063-49-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
233-237-5	10025-84-0	-	Met. Corr. 1: H290; Skin Sens. 1A:H317; Eye Dam. 1: H318; Aquatic Chronic 2: H411	≥99.9%

Additional Information:

Molecular formula: LaCl<sub>3</sub> · 7H<sub>2</sub>O

The above mentioned EINECS- No. refers to the anhydrous form (CAS-No.: 1009-58-8).

For the wording of the listed phrases refer to section 16.

**4. First Aid measures**

**4.1 Description of first aid measures**

- Skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- Eye contact: Rinse opened eye for several minutes under running water. Then, consult a doctor.
- Ingestion: If swallowed, rinse mouth with water (only if person is conscious). Induce vomiting only, if affected person is fully conscious. Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Inhalation: Supply fresh air. Seek medical treatment in case of complaints.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms & 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:**

Extinguishing media: CO<sub>2</sub>, sand, extinguishing powder. DO NOT use water.

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

Exposure hazards: Formation of toxic gases is possible during heating or in case of fire

**5.3 Advice for fire-fighters**

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. Accidental release Measures**

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

Personal Precautions: Ensure adequate ventilation. Avoid dust formation. Wear protective clothing.

**6.2 Environmental precautions**

Environmental precautions: Do not allow to enter sewers / surface or ground water. Damp down dust with water spray. Keep contaminated washing water and dispose of appropriately

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up: Pick up mechanically. Use neutralizing agent. Send for recovery in suitable receptacles.

**6.4 Reference to other sections**

Reference to other sections: See Section 8 for information on personal protection equipment.

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

Hygiene measures: Prevent formation of dust. Provide suction extractors if dust is formed.

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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

**7.3 Specific end uses** See section 1.2**8. Exposure control/personal protection****8.1 Control parameters**

Workplace exposure limits: No data available

DNEL/PNEC values.

LANTHANUM CHLORIDE, ANHYDROUS

Type	Exposure	Value	Population	Effect
DNEL	Dermal	123 mg/kg	Workers	Local
DNEL	Inhalation	108.44 mg/m <sup>3</sup>	Workers	Systemic
PNEC	Microorganisms in sewage treatment	12.5 mg/l	Consumers	Systemic
PNEC	Fresh water	0.0176 mg/l	Consumers	Systemic
PNEC	Marine water	0.00176 mg/l	Consumers	Systemic
PNEC	Fresh water sediments	23.27 mg/kg	Consumers	Systemic
PNEC	Soil (agricultural)	5 - 50 mg/kg	Consumers	Systemic

**8.2 Exposure controls**

**Engineering measures** Ensure adequate ventilation of the working area.

**Respiratory protection** Use suitable respiratory protective device when high concentrations are present. Self-contained breathing apparatus must be available in case of emergency.

Recommended Filter: Filter P1 Filter FFP1

**Hand protection** Wear impermeable gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Recommended Material: Butyl rubber, BR Nitrile rubber, NBR

Value for the permeation : Level ≤ 120 min. (EN 374)

The exact break through time must be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection** Wear safety goggles approved to standard EN 166. Provide eye station

**Skin and body protection** Impermeable protective clothing.

**Environmental exposure controls**

General advice: General room ventilation plus local exhaust should be used

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

Form: Solid crystalline

Colour: Colourless

Odour: Light pungent

pH: 2.5 – 4.0

Melting Point 852°C

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

Boiling point :	1750°C
Flammability (solid, gaseous):	Product is not flammable
Decomposition temperature:	400°C
Danger of explosion:	Product does not present an explosion hazard
Density at 25°C:	3.842g/cm <sup>3</sup>
Solubility in/Miscibility with water 20°C:	861.06 ± 3.06 g/l

**9.2 Other Information**

Other Information	No data available
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**10. Stability and reactivity****10.1 Reactivity**

Reactivity	Stable under recommended transport or storage conditions.
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**10.2 Chemical stability**

Chemical stability	No decomposition if used and stored according to specifications.
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**10.3 Possibility of hazardous reactions**

Hazardous reactions:	Reacts with strong oxidising agents. Reacts with water and acids. Reacts with humid air.
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**10.4 Conditions to avoid**

Conditions to avoid	Heat
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**10.5 Incompatible materials**

Materials to avoid	Keep away from oxidising agents and acidic substances. Keep away from water.
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**10.6 Hazardous decomposition products**

Haz. decomp. products:	Hydrogen chloride (HCl)
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**11. Toxicological Information****11.1 Information on toxicological effects****Hazardous Ingredients:**

LANTHANUM CHLORIDE, HYDRATE

DERMAL	RBT	LD50	>1638	mg/kg
ORL	RAT	LD50	2621	mg/kg

**Relevant hazards for product:**

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

**Sensitisation** May cause sensitisation by skin contact.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) None

**12. Ecological Information****12.1 Toxicity**

Aquatic toxicity:

10099-58-8 Lanthanum chloride, anhydrous

EC50	2.083 mg/l	(Daphnia carinata) (OECD 202 (Daphnia sp. Acute Immobilisation Test)) Barry M.J. and Meehan B.J. (2000)
EC50/72h	28.2 mg/l	Bogers M. (1995) (Desmodesmus subspicatus) (OECD 201 (Algae Growth Inhibition Test))
NOEC	2.3mg/l	(Desmodesmus subspicatus)
NOEC/21 days	0.176mg/l	(Daphnia magna) (OECD 202 & EEC Draft guideline X1/681/86) EC50 / 72h
	0.46 mg/l	(Cyprinus carpio)

**12.2 Persistence and degradability**

Persistence and degradability: Biodegradable

**12.3 Bioaccumulative potential**

All research (predominantly field studies) into the bioaccumulation of Lanthanum in the aquatic compartment showed, that Lanthanum may have a potential to bioaccumulate in aquatic organisms. There is also increasing evidence that certain aquatic organisms have a regulation mechanism for the uptake of Lanthanum and that Lanthanum ions are essential for their biological function. Thus, this bioaccumulation is no cause for concern as in the classical sense for organic substances.

On the contrary bioaccumulation investigations in the terrestrial compartment indicated only a low potential for Lanthanum to bioaccumulate in plants.

**12.4 Mobility in soil**

Mobility: No information available

AOX-indication: The product does not contain organically bounded halogens (AOX-free)

General notes: Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for

**12.5 Results of PBT and vPvB assessment**

PBT identification: This product is not identified as a PBT/vPvB substance.

**12.6 Other adverse effects**

Other adverse effects Negligible ecotoxicity.

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



- Transfer to a suitable container and arrange for collection by specialised disposal company
- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

**Classification**

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. Transport Information

<b>14.1 UN Number</b>	UN3077	
<b>14.2 UN proper shipping name</b>	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S (Lanthanum chloride heptahydrate)	
<b>14.3 Transport hazard class(es)</b>		 
Class	9	
Classification Code	M7	
Hazard label	9	
Transport Category	3	
<b>14.4 Packaging Group</b>	III	
<b>14.5 Environmental hazards</b>	Environmentally Hazardous Marine Pollutant	
<b>14.6 Special precautions for user</b>	Not applicable	
Danger Code (Kemler)	90	
EMS No	F-A-, S-F	
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable	
Transport / additional information		
ADR	E1	
Excepted quantities (EQ)	5kg	
Limited quantities (LQ)	3	
Transport category	E	
Tunnel restriction code		

## 15. Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.****Information about limitation of use**

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

TSCA (Toxic Substances Control Act): Not applicable.

**Proposition 65**

Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity in females: Substance is not listed.

Chemicals known to cause reproductive toxicity in males: Substance is not listed.

Chemicals known to cause development toxicity: Substance is not listed.

Carcinogen categories:

EPA (Environmental Protection Agency): Substance is not listed.

TLV (Threshold Limit Value established by ACGIH): Substance is not listed.

**National regulations:**

C.H.I.P.4 – The Chemicals (Hazard Information and Packaging Regulations) 2002 in current version (GB)

Occupational Exposure Limits EH40.2002 (GB)

**15.2 Chemical Safety Assessment**

A chemical safety assessment has not been carried out for the mixture by the supplier

16. Other information

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

- H290: May be corrosive to metals.
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H412 Harmful to aquatic life with long lasting effects

**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.

█ Indicates updated section







