

## Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 28.03.2025

Version number 4 (replaces version 3)

Revision: 28.03.2025

### \* SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

· Trade name: Ultimate Phos Granules

· CAS Number:

10099-58-8

· EC number:

233-237-5

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

· Product category PC37 Water treatment chemicals

· Application of the substance / the mixture Water treatment

· Uses advised against

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

#### · 1.3 Details of the supplier of the safety data sheet

· Supplier:

Complete Pool Controls Ltd

Unit 2, The Park

Stoke Orchard

Bishops Cleeve

Gloucestershire

GL52 7RS

UK

Tel: +44 (0)1242 662700 (office hours)

email: sales@cpc-chemicals.co.uk

· Further information obtainable from: Product safety department.

· 1.4 Emergency telephone number:

OHES Environmental

Tel: 01242 300271

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· Classification according to GB-CLP

Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1A H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

#### · 2.2 Label elements

· Labelling according to GB-CLP The substance is classified and labelled according to the GB CLP regulation.

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### · Hazard pictograms



### · Signal word Danger

### · Hazard-determining components of labelling:

Lanthanum chloride

### · Hazard statements

H290 May be corrosive to metals.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

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+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

### · 2.3 Other hazards

### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## \* SECTION 3: Composition/information on ingredients

### · 3.1 Substances

#### · CAS No. Description

CAS: 10099-58-8 Lanthanum chloride

Alternative CAS number: 10025-84-0

#### · Identification number(s)

· **EC number:** 233-237-5

## \* SECTION 4: First aid measures

### · 4.1 Description of first aid measures

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Check for and remove any contact lenses.

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- Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
  - Wash mouth out with water
  - Do not induce vomiting; call for medical help immediately.
  - If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- **Information for doctor:** Treat symptomatically and supportively.
- **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

### \* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
  - Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
  - In case of fire, the following can be released:
    - Hydrogen chloride (HCl)
    - Toxic metal oxide smoke
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
  - Do not inhale explosion gases or combustion gases.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

### \* SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Avoid formation of dust.
- **6.2 Environmental precautions:**
  - Do not allow to penetrate the ground/soil.
  - Do not allow product to reach sewage system or any water course in the undiluted form.
  - Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
  - Pick up mechanically.
  - Ensure adequate ventilation.
  - Send for recovery or disposal in suitable receptacles.
- **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.

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#### \* SECTION 7: Handling and storage

##### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

· **Information about fire - and explosion protection:** No special measures required.

##### · 7.2 Conditions for safe storage, including any incompatibilities

##### · Storage:

· **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **Storage class:** 11

· **7.3 Specific end use(s)** No further relevant information available.

#### \* SECTION 8: Exposure controls/personal protection

##### · 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:** Not required.

##### · DNELs

##### CAS: 10099-58-8 Lanthanum chloride

Dermal Long-term systemic effects 123 mg/kg bw/day (worker)

Inhalative Long-term systemic effects 108.44 mg/m<sup>3</sup> (worker)

##### · PNECs

##### CAS: 10099-58-8 Lanthanum chloride

Freshwater 17.6 µg/L

Freshwater - Intermittent releases 20.83 µg/L

Marine water 1.76 µg/L

Sewage Treatment Plant 12.5 mg/L

· **Additional information:** The lists valid during the making were used as basis.

##### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not breathe dust

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

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#### · Hand protection



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material

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

#### · Eye/face protection



Tightly sealed goggles conforming to EN166.

#### · Body protection:



Impervious protective clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

#### · Environmental exposure controls

Do not allow to enter drains, sewers or watercourses.

#### · Risk management measures

The operators shall be instructed adequately.

## \* SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

##### · Physical state

Solid

##### · Colour:

White

##### · Odour:

Mild

##### · Odour threshold:

Not determined.

##### · Melting point/freezing point:

852 °C

##### · Boiling point or initial boiling point and boiling range

1,800 °C (CAS: 10099-58-8 Lanthanum chloride)

##### · Flammability

Product is not flammable.

##### · Lower and upper explosion limit

##### · Lower:

Not determined.

##### · Upper:

Not determined.

##### · Flash point:

Not applicable.

##### · Decomposition temperature:

Not determined.

##### · pH

Not applicable.

##### · Viscosity:

##### · Kinematic viscosity

Not applicable.

##### · Dynamic:

Not applicable.

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|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>Solubility</b></li> <li>· <b>water at 20 °C:</b></li> <li>· <b>Partition coefficient n-octanol/water (log value)</b></li> <li>· <b>Vapour pressure:</b></li> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C:</b></li> <li>· <b>Relative density</b></li> <li>· <b>Vapour density</b></li> </ul>   | <ul style="list-style-type: none"> <li>860 g/l</li> <li>Not determined.</li> <li>Not applicable.</li> <li></li> <li>3.84 g/cm<sup>3</sup></li> <li>Not determined.</li> <li>Not applicable.</li> </ul>  |
| <ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b></li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Ignition temperature:</b></li> <li>· <b>Explosive properties:</b></li> <li>· <b>Change in condition</b></li> <li>· <b>Evaporation rate</b></li> </ul>  | <ul style="list-style-type: none"> <li>NOTE: The physical data presented above are typical values and should not be construed as a specification.</li> <li></li> <li>Tablets</li> <li></li> <li>Not determined.</li> <li>Product does not present an explosion hazard.</li> <li></li> <li>Not applicable.</li> </ul>  |
| <ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b></li> <li>· <b>Flammable gases</b></li> <li>· <b>Aerosols</b></li> <li>· <b>Oxidising gases</b></li> <li>· <b>Gases under pressure</b></li> <li>· <b>Flammable liquids</b></li> <li>· <b>Flammable solids</b></li> <li>· <b>Self-reactive substances and mixtures</b></li> <li>· <b>Pyrophoric liquids</b></li> <li>· <b>Pyrophoric solids</b></li> <li>· <b>Self-heating substances and mixtures</b></li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b></li> <li>· <b>Oxidising liquids</b></li> <li>· <b>Oxidising solids</b></li> <li>· <b>Organic peroxides</b></li> <li>· <b>Corrosive to metals</b></li> <li>· <b>Desensitised explosives</b></li> </ul> | <ul style="list-style-type: none"> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>May be corrosive to metals.</li> <li>Not applicable</li> </ul> |

#### \* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
  - Reacts with alkali (lyes).
  - Reacts with alkaline metals.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Substances specifically listed in section 10.3 as incompatible.

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#### · 10.6 Hazardous decomposition products:

Hydrogen chloride (HCl)

Metal oxide

## \* SECTION 11: Toxicological information

#### · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

CAS: 10099-58-8 Lanthanum chloride

Oral LD50 &gt; 2,000 mg/kg (rat)

Dermal LD50 &gt; 2,000 mg/kg (rabbit)

#### · Primary irritant effect:

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation** Causes serious eye damage.

· **Respiratory or skin sensitisation** May cause an allergic skin reaction.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Subacute to chronic toxicity:** Prolonged or repeated skin contact may irritate and cause dermatitis.

· **Additional toxicological information:** Repeated or prolonged skin contact may induce sensitisation.

#### · 11.2 Information on other hazards

#### · Endocrine disrupting properties

Substance is not listed.

## \* SECTION 12: Ecological information

#### · 12.1 Toxicity

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability** Inorganic substance: not applicable

· **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.

· **12.4 Mobility in soil** No further relevant information available.

#### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

#### · 12.7 Other adverse effects

· **Remark:** Toxic for fish

#### · Additional ecological information:

#### · General notes:

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

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Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### \* SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop hazardous gases and vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### \* SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/RID/ADN, IMDG, IATA**

UN1759

· **14.2 UN proper shipping name**

· **ADR/RID/ADN**

UN1759 CORROSIVE SOLID, N.O.S. (Lanthanum chloride),  
ENVIRONMENTALLY HAZARDOUS

· **IMDG**

CORROSIVE SOLID, N.O.S. (Lanthanum chloride),  
MARINE POLLUTANT

· **IATA**

CORROSIVE SOLID, N.O.S. (Lanthanum chloride)

· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN**



· **Class**

8 (C10) Corrosive substances.

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|   |   |
|---|---|
| · Label   | 8   |
| · IMDG  |   |
|  |   |
| · Class   | 8 Corrosive substances.   |
| · Label   | 8   |
| · IATA  |   |
|  |   |
| · Class   | 8 Corrosive substances.   |
| · Label   | 8   |
| · 14.4 Packing group  |   |
| · ADR/RID/ADN, IMDG, IATA   | III   |
| · 14.5 Environmental hazards:   |   |
| · Marine pollutant:   | Symbol (fish and tree)  |
| · Special marking (ADR/RID/ADN):  | Symbol (fish and tree)  |
| · 14.6 Special precautions for user   | Warning: Corrosive substances.  |
| · Hazard identification number (Kemler code):                                     | 80  |
| · Hazchem Code:   | 2X  |
| · EMS Number:   | F-A,S-B   |
| · Stowage Category  | A   |
| · 14.7 Maritime transport in bulk according to IMO instruments                    | Not applicable.   |
| · Transport/Additional information:   | Amounts up to 5kg or 5L per single or inner package do not require the Environmentally Hazardous mark in accordance with ADR 5.2.1.8.1 and IMDG 2.10.2.7. |
| · ADR/RID/ADN   |   |
| · Limited quantities (LQ)   | 5 kg  |
| · Excepted quantities (EQ)  | Code: E1<br>Maximum net quantity per inner packaging: 30 g<br>Maximum net quantity per outer packaging: 1000 g  |
| · Transport category  | 3   |
| · Tunnel restriction code   | E   |
| · IMDG  |   |
| · Limited quantities (LQ)   | 5 kg  |
| · Excepted quantities (EQ)  | Code: E1<br>Maximum net quantity per inner packaging: 30 g<br>Maximum net quantity per outer packaging: 1000 g  |

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|--------------------------|---|
| · UN "Model Regulation": | UN 1759 CORROSIVE SOLID, N.O.S. (LANTHANUM CHLORIDE), 8, III, ENVIRONMENTALLY HAZARDOUS |
|--------------------------|---|

### SECTION 15: Regulatory information

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

#### · Regulated explosives precursors

Substance is not listed.

#### · Regulated poisons

Substance is not listed.

#### · Reportable explosives precursors

Substance is not listed.

#### · Reportable poisons

Substance is not listed.

- Control Of Major Accident Hazards Regulations 2015 (COMAH)
- Named dangerous substances - ANNEX I Substance is not listed.
- COMAH category E2
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### \* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

#### · Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

#### · Department issuing SDS: Product safety department.

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (UK REACH)  
PNEC: Predicted No-Effect Concentration (UK REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
ATE: Acute toxicity estimate values

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Met. Corr. 1: Corrosive to metals – Category 1

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

. \* **Data compared to the previous version altered.**

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