

Phosphorus

ACCORDING TO UK-REGULATIONS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name Phosphorus
CAS No. Not applicable.
Registration number(s) Not known.

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

Identified Use(s) Fertiliser
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer
Company Identification AIVA LTD (Aiva Fertiliser)
Address of Manufacturer Old Farm Offices
Manor Farm,
Ginge,
Oxfordshire,
United Kingdom
Postal code OX12 8QS
Telephone: 01234 834 997
Fax Not known.
E-mail office@aivafertiliser.co.uk
Office hours Office hours: Monday - Friday 0830 - 1700
Supplier

Company Identification AIVA LTD (Aiva Fertiliser)
Address of Supplier Old Farm Offices
Manor Farm,
Ginge,
Oxfordshire,
United Kingdom
Postal code OX12 8QS
Telephone: 01234 834 997
Fax Not known.
E-mail office@aivafertiliser.co.uk
Office hours Office hours: Monday - Friday 0830 - 1700

1.4 Emergency telephone number

Emergency Phone No. 01235834997
Contact Call 111

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

United Kingdom Regulations Not classified as dangerous for supply/use.

2.2 Label elements

According to UK-regulations

Product Name Phosphorus

Hazard Pictogram(s) None.

Signal Word(s) None.

Hazard Statement(s) None.

Precautionary Statement(s) P101: If medical advice is needed, have product container or label at hand.
P103: Read label before use.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P340: Remove person to fresh air and keep comfortable for breathing.
P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

Phosphorus

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

| HAZARDOUS INGREDIENT(S) | CAS No. | EC No. / Registration number(s) | %W/W | Hazard Statement(s) | Hazard Pictogram(s) |
|--|-----------|---------------------------------|------|--|-------------------------|
| phosphoric acid ... %, orthophosphoric acid ... % | 7664-38-2 | 231-633-2 | <25% | Skin Corr. 1B H314 | GHS05 |
| zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) | 7446-19-7 | 231-793-3 | <10% | Acute Tox. 4 H302 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 | GHS05 GHS07 GHS09 |
| citric acid | 77-92-9 | 201-069-1 | <1% | Eye Irrit. 2 H319 | GHS07 |

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact Wash skin with water.

Eye Contact Flush eyes with water for at least 15 minutes.

Ingestion Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated. Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

None anticipated. Heating may cause decomposition.

5.3 Advice for firefighters

As appropriate for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. When using do not smoke, eat or drink. Wash hands thoroughly after handling.

Phosphorus

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient. Protect from frost.
 Storage life Stable under normal conditions. Protect from sunlight.
 Incompatible materials None known.

7.3 Specific end use(s)

Fertiliser

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

| Occupational Exposure Limits | | | | | | |
|------------------------------|-----------|---------------------|------------------------------------|------------|---------------------------|------|
| SUBSTANCE. | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
| Orthophosphoric acid | 7664-38-2 | | 1 | | 2 | |

Region United Kingdom Source UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark Notes

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection Wear eye protection with side protection (EN166).



Skin protection Not normally required.



Respiratory protection Normally no personal respiratory protection is necessary.



Thermal hazards None known.

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Liquid.
 Colour : Brown
 Odour Not known.
 Odour threshold Not known.
 pH < 2.8.
 Melting point/freezing point Not known.
 Initial boiling point and boiling range Not known.
 Flash Point Not known.
 Evaporation rate Not known.
 Flammability (solid, gas) Not known.
 Upper/lower flammability or explosive limits Not known.
 Vapour pressure Not known.
 Vapour density Not known.
 Density (g/ml) 1.2g/cm³
 Relative density Not known.
 Solubility(ies) Solubility (Water) : Not known.

Phosphorus

| | |
|--|---------------------------------|
| Partition coefficient: n-octanol/water | Solubility (Other) : Not known. |
| Auto-ignition temperature | Not known. |
| Decomposition Temperature (°C) | Not known. |
| Viscosity | Not known. |
| Explosive properties | Not known. |
| Oxidising properties | Not known. |
| 9.2 Other information | None. |

SECTION 10: STABILITY AND REACTIVITY

| | |
|--|--|
| 10.1 Reactivity | None anticipated. |
| 10.2 Chemical Stability | Stable under normal conditions. |
| 10.3 Possibility of hazardous reactions | No hazardous reactions known if used for its intended purpose. |
| 10.4 Conditions to avoid | None anticipated. |
| 10.5 Incompatible materials | Not known. |
| 10.6 Hazardous decomposition products | No hazardous decomposition products known. |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|--|-----------------|
| 11.1 Information on toxicological effects | |
| Acute toxicity - Ingestion | Not classified. |
| Acute toxicity - Skin Contact | Not classified. |
| Acute toxicity - Inhalation | Not classified. |
| Skin corrosion/irritation | Not classified. |
| Serious eye damage/irritation | Not classified. |
| Skin sensitization data | Not classified. |
| Respiratory sensitization data | Not classified. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not classified. |
| Reproductive toxicity | Not classified. |
| Lactation | Not classified. |
| STOT - single exposure | Not classified. |
| STOT - repeated exposure | Not classified. |
| Aspiration hazard | Not classified. |
| 11.2 Other information | Not known. |

SECTION 12: ECOLOGICAL INFORMATION

| | |
|--|--------------------------------|
| 12.1 Toxicity | |
| Toxicity - Aquatic invertebrates | Low toxicity to invertebrates. |
| Toxicity - Fish | Low toxicity to fish. |
| Toxicity - Algae | Low toxicity to algae. |
| Toxicity - Sediment Compartment | Not classified. |
| Toxicity - Terrestrial Compartment | Not classified. |
| 12.2 Persistence and degradability | Not known. |
| 12.3 Bioaccumulative potential | Not known. |
| 12.4 Mobility in soil | Not known. |
| 12.5 Results of PBT and vPvB assessment | Not known. |
| 12.6 Other adverse effects | Not known. |

Phosphorus

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose at suitable refuse site.

13.2 Additional Information

No special precautions are required for this product.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

SECTION 15: REGULATORY INFORMATION

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

United Kingdom Regulations Not known.

National regulations

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles citric acid (77-92-9), zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) (7446-19-7), phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

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A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)

None.

GHS05: GHS: Corrosion

GHS07: GHS: Exclamation mark

GHS09: GHS: Environment

Hazard classification

Acute Tox. 4 : Acute toxicity, Category 4

Skin Corr. 1B : Skin corrosion/irritation, Category 1B

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

Phosphorus

Eye Irrit. 2 : Serious eye damage/irritation, Category 2
Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1
Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1

Hazard Statement(s)

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P101: If medical advice is needed, have product container or label at hand.
P103: Read label before use.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P340: Remove person to fresh air and keep comfortable for breathing.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ATE : Acute Toxicity Estimate
CAS : Chemical Abstracts Service
DNEL : Derived No Effect Level
EC : European Community
EINECS : European Inventory of Existing Commercial Chemical Substances
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for United Kingdom Regulations data used to compile the SDS

Disclaimers

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