

Turret

ACCORDING TO UK-REGULATIONS

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

Product Name Turret
Trade Name AF Turret
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
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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 Turret
Trade Name AF Turret
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.

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2.3 Other hazards

None known.

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 | <15 | Skin Corr. 1B H314 | GHS05 |
| zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) | 7446-19-7 | 231-793-3 | <2 | Acute Tox. 4 H302 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 | GHS05 GHS07 GHS09 |
| manganese sulphate | 7785-87-7 | 232-089-9 | <2 | STOT RE 2 H373 Aquatic Chronic 2 H411 | GHS08 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.

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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 eat, drink or smoke. Wash hands thoroughly after handling.

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 | |
| Manganese and its inorganic compounds (as Mn) - Inhalable fraction | 7785-87-7 | | 0.2 | | | |
| Manganese and its inorganic compounds (as Mn) - Respirable fraction | 7785-87-7 | | 0.05 | | | |

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 : Not known.
 Odour Not known.
 Odour threshold Not known.
 pH < 3.2.
 Melting point/freezing point Not known.

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| 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/cm ³ |
| Relative density | Not known. |
| Solubility(ies) | Solubility (Water) : Not known. Solubility (Other) : Not known. |
| Partition coefficient: n-octanol/water | 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 | Low acute toxicity |
| Acute toxicity - Skin Contact | Low acute toxicity |
| Acute toxicity - Inhalation | Low acute toxicity |
| Skin corrosion/irritation | Non-irritant |
| Serious eye damage/irritation | Non-irritant |
| Skin sensitization data | Not classified |
| Respiratory sensitization data | Not classified |
| Germ cell mutagenicity | There is no evidence of mutagenic potential. |
| Carcinogenicity | No evidence of carcinogenicity. |
| 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. |

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- 12.4 Mobility in soil** Not known.
- 12.5 Results of PBT and vPvB assessment** Not known.
- 12.6 Other adverse effects** Not known.

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

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2), manganese sulphate (7785-87-7), zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) (7446-19-7), citric acid (77-92-9)

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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15.2 Chemical Safety Assessment

United Kingdom 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.

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| | |
|--|---|
| | GHS05: GHS: Corrosion GHS07: GHS: Exclamation mark GHS08: GHS: Health hazard 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 Eye Irrit. 2 : Serious eye damage/irritation, Category 2 STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2 Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1 Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2 |
| 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. H373: May cause damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects. H411: 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 data used to compile the SDS | United Kingdom Regulations |
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