

**According to EC Regulations No. 453/2010 (REACH), 1272/2008 (CLP) & 453/2010**
**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Trade name AF Sinergy  
 Product code PM4-AN-101.2-18.5L  
 REACH registration No. not applicable

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

Identified use(s) Agricultural fertiliser  
 Uses advised against None known

**1.3. Details of the supplier of the safety data sheet**

Supplier name: Aiva Fertiliser  
 Supplier address: Aiva Fertiliser  
 Manor Farm  
 Ginge  
 Oxfordshire  
 OX12 8QS  
 Supplier telephone: +44 01235 834997  
 Email: [office@aivafertiliser.co.uk](mailto:office@aivafertiliser.co.uk)

**1.4. Emergency telephone number**

Emergency phone No. +44 111 (24-hour line, English main language, interpreters available)

**SECTION 2: Hazards identification**
**2.1. Classification of the substance or mixture**

2.1.1. Regulation (EC) No.1272/2008 (CLP) Specific target organ toxicity after repeated exposure (Category 2)

**2.2. Label elements**
**Labelling according Regulation (EC) No 1272/2008 [CLP]**


CLP Hazard Pictograms:

Signal Word(s): Warning

Hazard Statements:

H373 May cause damage to organs

Precautionary Statements:

P260 Do not breathe dust/ mist/ vapours/ spray  
 P314 Get medical advice/ attention if you feel unwell

P501

Dispose of contents/ container to a waste collection point, empty container may be disposed of to trade or municipal waste

**2.3. Other hazards**

Not tested for PBT, Not tested for vPvB

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

**3.2. Mixtures**

EC Classification No 1272/2008

| Ingredient(s)                             | %w/w      | CAS no     | EC no     | REACH Registration no | Hazard statements |
|---|-----------|------------|-----------|-----------------------|-------------------|
| Diatomaceous earth, calcined (Kieselguhr) | >10 - <20 | 91053-39-3 | 293-303-4 | -                     | H373              |

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**4.1.1. First aid instructions.**

If inhaled: Move person into fresh air, if not breathing give artificial respiration, consult a physician immediately if breathing is difficult.

If on skin (or hair): Wash affected skin with plenty of water, remove any contaminated clothing, avoid rubbing or abrading damaged skin, seek medical advice if any pain or irritation persists.

If in eyes: Immediately flush the eyes with plenty of water for several minutes. Remove any contact lenses and open eyes wide apart to wash. Seek medical advice if any pain persists. Do not rub the eyes.

If swallowed: Rinse out the mouth and give the victim water to drink. Do not induce vomiting, but if vomiting occurs spontaneously keep the airways clear. Seek medical attention if feeling unwell or are concerned.

Other first aid advice: Wash any affected areas with water

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

If inhaled: Inhalation of mists or vapours is expected to cause coughing and some respiratory discomfort. A sore throat may develop.

If on skin (or hair): Skin exposure may cause itching, redness and soreness if left unwashed for an extended amount of time.

If in eyes: Exposure to the eyes may result in pain, tearing and irritation. Abrasive damage may occur to the eyes where rubbed.

If swallowed: There may be some nausea, vomiting, diarrhoea and stomach pains.

**4.3. Indication of any immediate medical attention and special treatment needed**

Medical treatment: Treat symptomatically

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media: Water jet, water spray, foam, powder, carbon dioxide

Unsuitable extinguishing media: None known

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

Hazardous combustion products: None known

Other special hazards during fire: None known

**5.3. Advice for firefighters**

Protective actions during firefighting: No special instructions

Special protective equipment for firefighters: Use self-contained breathing apparatus

**SECTION 6: Accidental release measures**

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

Non-emergency personnel PPE See section 8.2

Emergency responders PPE See section 8.2

Controlling risks from accidental release: Use sand or other coarse absorbent to minimise slip hazards and absorb spilt material

Emergency procedures: Cordon the area around a spill to prevent access, where the product may represent a slip or react with other nearby materials

**6.2. Environmental precautions**

Keep accidental releases away from: Do not let the product enter drains, surface water, soil and open ground

**6.3. Methods and material for containment and cleaning up**

Containing a spill: Collect spillage or absorb with a suitable absorbent material.

Cleaning up a spill Use a squeegee and absorbent material to clean a spill as much as possible, the area should then be washed with water to remove remaining residues

Other information on spill handling: Product will represent a slip hazard where spilt

**6.4. Reference to other sections**

References to other sections: See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

|                                |  |
|--------------------------------|--|
| Safe handling recommendations: | Avoid prolonged contact with skin and any contact with eyes.<br>Apply good hygiene practices   |
| Handling incompatibles:        | Do not handle with strong oxidisers  |
| Reducing environmental risk:   | Ensure adequate spill kits and drain protection in the vicinity of where this product is stored and used                               |
| Occupational hygiene advice    | Wash hands after use and before eating and drinking.<br>Remove contaminated clothing and PPE before leaving the entering eating spaces |

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

**Safe storage: managing risks during storage:**

|   |  |
|---|--|
| Explosive atmospheres formed during storage:                | Not applicable   |
| Corrosive conditions during storage:                        | Not expected to cause damage to plastic or metal containers                |
| Flammability hazards during storage:                        | Not applicable   |
| Incompatible substances or mixtures:                        | May react with strong oxidisers  |
| Evaporative conditions:                                     | Evaporation may concentrate components and eventually create a dust hazard |
| Potential ignition sources, including electrical equipment: | Not applicable   |

**Safe storage: controlling effects of ambient conditions:**

|                     |                                      |
|---------------------|--------------------------------------|
| Weather conditions: | Keep out of rain                     |
| Ambient pressure:   | Not applicable                       |
| Temperature:        | No specific temperature requirements |
| Sunlight:           | Store out of direct sunlight         |
| Humidity:           | Not applicable                       |
| Vibration:          | Not applicable                       |

**Safe storage: maintaining the integrity of the product:**

|               |   |
|---------------|---|
| Stabilisers:  | Stabilisers are not used in this product  |
| Antioxidants: | Antioxidants are not used in this product |

**Safe storage: other advice:**

|  |                |
|--|----------------|
| Ventilation requirements for storage:          | Not applicable |
| Specific designs for storage rooms or vessels: | Not applicable |
| Quantity limits under storage conditions:      | Not applicable |
| Suitable packaging for the substance:          | Not applicable |

### 7.3. Specific end use(s)

Uses: Agricultural fertiliser

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

8.1.1 Occupational exposure limits: Not applicable

8.1.2 Biological Limit Values: Not applicable

8.1.3 Current recommended monitoring procedures: Not applicable

8.1.4 Air contaminants formed when using the product as intended: Not applicable

8.1.5. PNECs and DNELs Not applicable

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the day. Ensure adequate ventilation.

#### 8.2.2. Personal Protection Equipment

Eye protection: Use splash protective glasses that have been tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Face protection: Should not be necessary for normal use.

Hand protection: When handling for extended periods use nitrile gloves to EN374 standards should be worn.

Other skin protection Protective coveralls are not expected for normal use. Do not wear open footwear.

Respiratory protection Respiratory protective equipment is not expected for normal use.

Thermal hazards Not applicable.

8.2.3. Environmental exposure controls Do not release any product effluent to drains or surface water

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## SECTION 9: Physical and chemical properties

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

Appearance: Opaque, beige, viscous liquid

Physical state: Liquid

Colour: Opaque, beige

Odour: Minimal surfactant odour

Odour threshold: Data not available

|   |  |
|---|--|
| pH:   | 6.0 – 7.5  |
| Melting point:                                    | Data not available                                     |
| Freezing point:                                   | Data not available                                     |
| Initial boiling point:                            | 100°C for water component                              |
| Boiling range:                                    | Data not available                                     |
| Flash point:                                      | >100°C   |
| Flash point method:                               | Data not available                                     |
| Evaporation rate:                                 | Data not available                                     |
| Flammability (if solid or gas):                   | Data not available                                     |
| Upper and lower flammability or explosive limits: | Data not available                                     |
| Vapour pressure:                                  | Data not available                                     |
| Vapour density:                                   | Data not available                                     |
| Density:  | 1.08 – 1.10 g/ml at 20.0°C                             |
| Solubility(ies)                                   | Completely miscible in water                           |
| Partition coefficient: n-octanol/water            | Data not available                                     |
| Auto-ignition temperature                         | Data not available                                     |
| Decomposition temperature                         | Data not available                                     |
| Viscosity   | 300 cPs at 20°C (measured on Brookfield RVT at 10 rpm) |
| Explosive properties                              | Data not available                                     |
| Oxidising properties                              | Data not available, not expected to be oxidising       |
| 9.2. Other information                            | No other information available                         |

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## SECTION 10: Stability and reactivity

|   |   |
|---|---|
| <b>10.1. Reactivity</b>                         | May react with strong oxidisers                                 |
| <b>10.2. Chemical stability</b>                 | Stable under normal storage conditions                          |
| <b>10.3. Possibility of hazardous reactions</b> | Product not known to react and/or polymerise in a hazardous way |
| <b>10.4. Conditions to avoid</b>                | Do not allow to dry out   |
| <b>10.5. Incompatible materials</b>             | Avoid mixing with strong oxidising agents                       |
| <b>10.6. Hazardous decomposition products</b>   | Data not available  |

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

|                                   |   |
|-----------------------------------|---|
| Acute toxicity                    | LD50: >2,000 mg/kg BW, based on classification  |
| Skin corrosion/irritation         | Not classified as irritating to skin  |
| Serious eye damage/irritation     | Not classified as irritating to the eyes  |
| Respiratory or skin sensitisation | Data not available  |
| Germ cell mutagenicity            | Data not available  |
| Carcinogenicity                   | Data not available  |
| Reproductive toxicity             | Data not available  |
| STOT-repeated exposure;           | May cause damage to organs, route not specified, though anticipated to be related to inhalation of dust content |

**11.2. Other information** No other information

**SECTION 12: Ecological information**

**12.1. Toxicity**

No aquatic toxicity testing has been undertaken for this product. Quoted values are aggregated from constituent data.

| Species | Test     | Value       |
|---------|----------|-------------|
| Trout   | LC50 96H | >1,000 mg/L |
| Daphnia | EC50 48H | >1,000 mg/L |
| Algae   | EC50 72H | >100 mg/L   |

**12.2. Persistence and degradability** Inorganic materials do not chemically degrade, the ions will persist and react in the environment. Organic components are expected to be readily biodegradable

**12.3. Bioaccumulative potential** Data not available

**12.4. Mobility in soil** Data not available

**12.5. Results of PBT and vPvB assessment** Data not available

**12.6. Other adverse effects**

Environmental fate Not applicable

Photochemical ozone creation potential Not applicable

Ozone depletion potential Not applicable

Endocrine disrupting potential Not applicable

Global warming potential Not applicable

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

This material, if discarded as produced, is not classified as a hazardous waste. Waste treatment containers to be used for product include IBCs or drums. Recycle material where possible. If heavily soiled or disposal judged as necessary dispose to landfill in accordance with the Directive on waste 2008/98/EC

No specific waste treatment containers to be used for contaminated packaging, packaging should be recycled where possible. Waste treatment method for contaminated packaging should include a rinse with water. Dilute washings should be recycled where possible, possibly as a low grade fertiliser by a farmer or competent individual

**SECTION 14: Transport information**

- 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 applicable
- 14.6. Special precautions for user Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code Not applicable

**SECTION 15: Regulatory information**

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

- Ozone depleting substance (EC No 2037/2000): Not applicable
- Persistent organic pollutants (EC No 850/2004) Not applicable
- Export and import of dangerous chemicals (EC No 689/2008) Not applicable
- COMAH/ Seveso II categories or named substance Not applicable
- REACH Authorisations and/or Restrictions Not applicable
- Any other relevant Safety, health and environmental regulations: Not applicable

15.2. Chemical safety assessment A chemical safety assessment has not been carried out for this product

**SECTION 16: Other information**

a) Changes made to SDS:

New safety datasheet

b) Key (or legend)



|      |  |
|------|--|
| BW   | Body Weight  |
| LD50 | Lethal Dosage affecting 50% of sample population           |
| LC50 | Lethal Concentration affecting 50% of sample population    |
| EC50 | Effective Concentration affecting 50% of sample population |

c) Literature references

Data gathered for raw materials from European Chemicals Agency:

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

Last accessed (13/12/2019)

Physical properties reported from laboratory testing by manufacturer

d) Details of relevant hazard information

H373 May cause damage to organs

P260 Do not breathe dust/ mist/ vapours/ spray

P314 Get medical advice/ attention if you feel unwell

P501 Dispose of contents/ container to a waste collection point, empty container may be disposed of to trade or municipal waste

e) Appropriate training for workers

Training for spillage and chemical handling is recommended

f) Classification method:

CLP classification