

MATERIAL SAFETY DATA SHEET
12-3-9



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

1.1 Product identifier

Product name 12-3-9.
REACH registration notes This Mixture is exempt from REACH registration according to Regulation (EC) No 1907/2006 (REACH).

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

Identified uses Fertiliser.

1.3 Details of the supplier of the safety data sheet

Supplier Angus Horticulture
Polmood, Guthrie
Forfar, Angus, DD8 2TW
sales@angus-horticulture.co.uk

1.4 Emergency telephone number

Emergency telephone number +44 (0) 1241 829049

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification

Physical hazards Not classified.
Health hazards Eye Irrit 2 H319.
Environmental hazards Not classified.

2.2 Label elements

Hazard pictograms



Signal word Warning.
Hazard statements H319 Causes serious eye irritation.
Precautionary statements P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| | | |
|---------------------------|--|---------------|
| SSP Single Superphosphate | EC Number: 232-379-5 | |
| CAS Number: 8011-76-5 | REACH registration Number: 01-2119488967-11-XXX | 10-30% |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Eye Irrit 2 H319 | Xi: R41 | |

MATERIAL SAFETY DATA SHEET

12-3-9

**Ferrous Sulphate 18%**

CAS Number: 7720-78-7

Classification

Acute Tox 4 H302
 Skin Irrit 2 H315
 Eye Irrit 2 H319

EC number: 231-753-5

REACH registration number: 01-2119513203-57-XXXX**Classification (67/548/EEC or 1999/45/EC)**

Xn; R22
 Xi; R36/38

5-10%

The Full text for all R-Phrases and Hazard Statement are Displayed in Section 16.

SECTION 4: First Aid measures**4.1 Description of first aid measures**

| | |
|---------------------|---|
| Inhalation | Get medical attention if symptoms are severe or persist. |
| Ingestion | Get medical attention if symptoms are severe or persist. |
| Skin contact | Wash skin thoroughly with soap and water or use an approved skin cleanser. Get medical attention if symptoms are severe or persist after washing. |
| Eye contact | Rinse immediately with plenty water. Remove contact lenses, if present and easy to do so. Continue rinsing. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|---------------------|--|
| Inhalation | Dust in high concentrations may irritate the respiratory system. |
| Ingestion | No harmful effects expected from quantities likely to be ingested by accident. |
| Skin contact | Skin irritation should not occur when used as recommended. |
| Eye contact | Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation. |

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

None known.

5.3 Advice for firefighters

No specific firefighting precautions known. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of dust and contact with skin and eyes. Use respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take care as floors and other surfaces may become slippery.

6.2 Environmental precautions

The product is slowly degradable. The product is not expected to be hazardous to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses

6.3 Methods and material for containment and cleaning up

Take care as floors and others surfaces may become slippery. Collect and dispose of spillage as indicated in Section 13.

6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

MATERIAL SAFETY DATA SHEET

12-3-9



SECTION 7: Handling and storage

- 7.1 Precautions for safe handling** Read label before use. Wear appropriate clothing to prevent repeated or prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store in a dry place.
- 7.3 Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1 Control parameters Occupational exposure limits

| | |
|-----------------------------|--|
| Ammonium Sulphate | Long-term exposure limit (8-hour TWA): LTEL 10 mg/m ³ . |
| Dolomite | Long-term exposure limit (8-hour TWA): WEL 10 mg/m ³ inhalable dust. Long-term exposure limit (8-hour TWA): WEL 4 mg/m ³ respirable dust. |
| Ferrous Sulphate 18% | Long-term exposure limit (8-hour TWA): WEL 1 mg/m ³ . Short-term exposure limit (15 minute): WEL 2 mg/m ³ . |
| Urea | Long-term exposure limit (8-hour TWA): WEL 10 mg/m ³ inhalable dust. Long-term exposure limit (8-hour TWA): WEL 4 mg/m ³ respirable dust. |

WEL = Workplace Exposure Limit.

SSP Single Superphosphate (CAS: 8011-76-5)

| | |
|-------------|---|
| DNEL | Workers - Dermal; Long term systemic effects: 17.4 mg/kg/day. Workers - Inhalation; Long term systemic effects: 3.1 mg/m ³ . General population - Inhalation; Long term systemic effects: 0.9 mg/m ³ . General population - Oral; Long term systemic effects: 2.1 mg/kg/day. General population - Dermal; Long term systemic effects: 10.4 mg/kg/day. |
| PNEC | - Fresh water; 1.7 mg/l. - Marine water; 0.17 mg/l. - Intermittent release; 17 mg/l. - STP; 10 mg/l. |

Potash (CAS: 7447-40-7)

| | |
|-------------|---|
| DNEL | Workers - Dermal; Short term systemic effects: 580 mg/kg/day. Workers – Dermal; Long term systemic effects: 580 mg/kg/day. Workers – Inhalation: Short term systemic effects: 292mg/m ³ . Workers – Inhalation; Long term systemic effects: 292mg/m. ³ |
| PNEC | - Fresh water; 0.47mg/l. - Marine water; 0.047mg/l |

MATERIAL SAFETY DATA SHEET

12-3-9



8.2 Exposure Controls

Protective equipment



| | |
|---------------------------------|---|
| Appropriate engineering control | All handling should only take place in well-ventilated areas. |
| Eye/Face Protection | Wear eye protection. |
| Hand Protection | Wear protective gloves. |
| Other skin & body protection | Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| Hygiene measures | Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. |
| Respiratory protection | No specific recommendations. |

SECTION 9: Physical and Chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-------------------------------|---|
| Appearance | Granules. |
| Colour | Beige to Dark Brown or Black. |
| Odour | Mild. |
| Odour threshold | Not determined. |
| pH | Slightly Acidic. |
| Melting Point | Not relevant. |
| Initial Boiling Point & Range | Not relevant. |
| Flash Point | Not relevant. |
| Evaporation Rate | Not relevant. |
| Flammability (solid, gas) | The product is not flammable. |
| Vapour pressure | Not relevant. |
| Vapour density | Not relevant. |
| Relative density | Not relevant. |
| Solubility (ies) | Not known. |
| Partition coefficient | Not known. |
| Auto-ignition temperature | Not relevant. |
| Decomposition Temperature | Not relevant. |
| Viscosity | Not relevant. |
| Explosive properties | Not relevant. |
| Oxidising properties | Does not meet the criteria for classification as oxidising. |

9.2 Other information No information required.

SECTION 10: Stability & Reactivity

| | |
|--|--|
| 10.1 Reactivity | No test data specifically related to reactivity available for this product or its ingredients. |
| 10.2 Chemical Stability | Stable when stored in a dry place. |
| 10.3 Possibility of hazardous reactions | No potentially hazardous reactions known. |
| 10.4 Conditions to avoid | There are no known conditions that are likely to result in hazardous situation. |
| 10.5 Incompatible materials | None known. |
| 10.6 Hazardous decomposition products | None known. |

MATERIAL SAFETY DATA SHEET
12-3-9**SECTION 11: Toxicological Information****11.1 Information on toxicological effects**

| | |
|--|---|
| Acute toxicity - oral ATE oral (mg/kg) | 4,782.60869595. |
| Acute toxicity - dermal Notes (dermal LD ₅₀) | No specific test data available. |
| Acute toxicity - inhalation Notes (inhalation LC ₅₀) | No specific test data available. |
| Serious eye damage/irritation | Irritation of eyes is assumed. In-vitro testing conducted on products with SSP Content <62%, 2015, Result: Reduced classification to Eye Irritant. Test Guidelines OECD 438. This result is less severe than the harmonised classification for Super Phosphates as Eye Damage 1 – H318. |
| Respiratory sensitisation | No specific test data are available. |
| Skin sensitisation | Not determined. |
| Germ cell mutagenicity Genotoxicity – in vitro | This substance has no evidence of mutagenic properties. |
| Carcinogenicity | No specific test data are available. |
| Reproductive toxicity - fertility | Does not contain any substances known to be toxic to reproduction. |
| Specific target organ toxicity – single exposure | Not classified as a specific target organ toxicant after a single exposure. |
| Specific target organ toxicity – repeated exposure | Not classified as a specific target organ toxicant after repeated exposure. |
| Aspiration hazard | Not anticipated to present an aspiration hazard, based on chemical structure |
| Eye contact | The product is considered to be a low hazard under normal conditions of use. May cause eye irritation. |

SECTION 12: Ecological information

| | |
|--|---|
| Ecotoxicity | The product is not expected to be toxic to aquatic organisms. |
| 12.1 Toxicity | |
| 12.2 Persistence and degradability | The product is slowly degradable. |
| 12.3 Bioaccumulative potential | Not known. |
| 12.4 Mobility in soil | No data available. |
| 12.5 Results of PBT and vPvB assessment | This product does not contain any substances classified as PBT or vPvB. |
| 12.6 Other Adverse effects | Not relevant. |

MATERIAL SAFETY DATA SHEET 12-3-9



SECTION 13: Disposal considerations

- 13.1 Waste treatment methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible. No specific disposal method required.

SECTION 14: Transport information

- General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
- 14.1 UN number** Not applicable.
- 14.2 UN proper shipping name** Not applicable.
- 14.3 Transport hazard class(es)** No transport sign warning required.
- 14.4 Packing group** Not applicable.
- 14.5 Environmental hazards** No.
- 14.6 Special precautions for user** Not applicable.
- 14.7 Transport in bulk to Annex II of MARPOL and the IBC Code**
Not applicable.

SECTION 15: Regulatory Information

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

- EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

- 15.2 Chemical safety assessment** No chemical safety assessment has been carried out.

SECTION 16: Other information

- Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.
- Revision date** 15/11/2019
- Revision** 4
- Supersedes date** 18/07/2019

- Hazard statements in full**
- | | |
|------|--------------------------------|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Disclaimer

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Angus Horticulture Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Angus Horticulture Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.