



MATERIAL SAFETY DATA SHEET

6-5-10

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

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

1.1 Product identifier

Product name 6-5-10

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

Identified uses Fertiliser.
Restricted to professional users.
Uses advised against None known.

1.3 Details of the supplier of the safety data sheet

Supplier Angus Horticulture
Polmood, Guthrie
Forfar, Angus, DD8 2TW
Telephone +44 (0)1241 829049
Fax +44 (0)1241 829043
E-mail sales@angus-horticulture.co.uk

1.4 Emergency telephone number

Emergency telephone number 01865 407333 ANGUSHORTICULTURE29003-NCEC
Contact National Chemical Emergency Centre

National response centre

Address NHS Direct
Emergency telephone number +44 111

SECTION 2: Hazards identification

Classified according to Regulation (EC) No 1272/2008 (CLP) as retained and amended in UK law.

2.1 Classification of the substance or mixture

Skin Irrit 2; H315 Causes skin irritation.
Eye Irrit 2; H319 Causes serious eye irritation.

2.2 Label elements

Hazard pictograms



Signal word Warning.
Hazard statement(s) Causes skin irritation (H315).
Causes serious eye irritation (H319).
Precautionary statement(s)
General -
Prevention Wash hands thoroughly after handling (P264).
Wear eye protection/protective gloves/protective clothing (P280).
Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
If eye irritation persists: Get medical advice/attention (P337+P313).
Storage -
Disposal -
Hazardous substances None known.
Additional labelling Not applicable.

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2.3 Other hazards

Additional warnings This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1 Substances Not applicable. This product is a mixture.

3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Single Superphosphate	CAS No: 8011-76-5 EC No: 232-379-5 UK REACH: Index No:	25-40%	Eye Irrit 2, H319	[19]
Ferrous sulfate heptahydrate	CAS No: 7782-63-0 EC No: 616-510-7 UK REACH: Index No:	15-20%	Acute Tox 4, H302 Skin Irrit 2, H315 Eye Irrit 2, H319	

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

Other information [19] UVCB = Unknown or variable composition, complex reaction products or of biological materials. Irritation of eyes is assumed. In-vitro testing conducted on products with Super Phosphate Content <62%, 2015, Result: Reduced classification to Eye Irritant. Test Guideline OECD 438. This result is less severe than the harmonised classification for Super Phosphates as Eye Damage 1 H318.

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

General information In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact IF ON SKIN: Wash with plenty of water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns Not applicable.

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4.2 Most important symptoms and effects, both acute and delayed

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Information to medics If eye irritation persists: Get medical advice/attention.
Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media Waterjets should not be used, since they can spread fire.

5.2 Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, eg in the event of fire, dangerous decomposition compounds are produced. These are:
Halogenated compounds;
Sulphur oxides;
Nitrogen oxides (NO_x);
Some metal oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24h service) in order to obtain further advice.

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

Avoid direct contact with spilled substances.
Contaminated areas may be slippery.

6.2 Environmental precautions

Avoid discharge to lakes, stream, sewers etc.
Keep unauthorised persons away from the spill.

6.3 Methods and material for containment and cleaning up

Minor spills are collected with a cloth. Collection and disposal of the materials shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.
Whenever possible, cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4 Reference to other sections

See section 13 "Disposal considerations" on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Powder trickling out onto the floor or onto other containers must be prevented.

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Recommended storage material Keep only in original packaging.
Storage temperature Dry, cool and well ventilated.
Incompatible materials Strong acids, strong bases, strong oxidising agents, and strong reducing agents.

7.3 Specific end use(s) This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1 Control parameters No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

Single Superphosphate

Duration:

Long term – Systemic effects – General population
 Long term – Systemic effects – Workers
 Long term – Systemic effects – Workers

Route of exposure:

Dermal
 Dermal
 Inhalation

DNEL:

2.08 mg/kg bw/day
 4.2 mg/kg bw/day
 2.9 mg/m³

PNEC

Single Superphosphate

Route of exposure

Sewage treatment plant

Duration of Exposure**PNEC**

10 mg/L

8.2 Exposure Controls**General recommendations**

Control is unnecessary if the product is used as intended.

Exposure scenarios

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure limits

There are no exposure scenarios implemented for this product.

Appropriate technical measures

Occupational exposure limits have not been defined for the substances in this product.

Hygiene measures

Apply standard precautions during the use of the product. Avoid inhalation of gas or dust.

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

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

Use only UKCA marked protective equipment.

Respiratory Equipment**Type**

Respiratory protection is not needed in the event of adequate ventilation.

Class**Colour****Standards****Skin protection****Recommended**

Dedicated work clothing should be worn.

Type/Category**Standards****Hand protection****Material**

No specific requirements.

Glove thickness (mm)**Breakthrough time (min)****Standards****Eye protection****Type**

Safety glasses with side shields

Standards

EN166



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SECTION 9: Physical and Chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	Granulate.
Colour	Testing not relevant or not possible due to the nature of the product.
Odour/Odour threshold	Testing not relevant or not possible due to the nature of the product.
pH	Testing not relevant or not possible due to the nature of the product.
Density (g/cm³)	Testing not relevant or not possible due to the nature of the product.
Kinematic viscosity	Does not apply to solids
Particle characteristics	Testing not relevant or not possible due to the nature of the product.
Phase changes	
Melting point/Freezing point (°C)	Testing not relevant or not possible due to the nature of the product.
Softening point/range (waxes and pastes) (°C)	Does not apply to solids.
Boiling point (°C)	Does not apply to solids.
Vapour pressure	Testing not relevant or not possible due to the nature of the product.
Relative vapour density	Does not apply to solids.
Decomposition temperature (°C)	Testing not relevant or not possible due to the nature of the product.
Data on fire and explosion hazards	
Flash point (°C)	Not applicable.
Flammability (°C)	Not applicable.
Auto-ignition temperature (°C)	Not applicable.
Lower and upper explosion limit (% v/v)	Does not apply to solids.
Solubility	
Solubility in water	Testing not relevant or not possible due to the nature of the product.
n-octanol/water coefficient	Testing not relevant or not possible due to the nature of the product.
Solubility in fat (g/L)	Testing not relevant or not possible due to the nature of the product.

9.2 Other information

Oxidising properties	Testing not relevant or not possible due to the nature of the product.
Other physical and chemical parameters	No data available.

SECTION 10: Stability & Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	The product is stable under the conditions, noted in section 7 "Handling and storage".
10.3 Possibility of hazardous reactions	None known.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Strong acids, strong bases, strong oxidising agents, and strong reducing agents.
10.6 Hazardous decomposition products	The product is not degraded when used as specified in section 1.

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SECTION 11: Toxicological Information**11.1 Information on toxicological effects as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law**

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
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.

11.2 Information on other hazards

Long term effects	Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.
Endocrine disrupting properties	This mixture/product does not contain any substances considered to have hormone-disrupting properties in relation to health.
Other information	None known.

SECTION 12: Ecological information

12.1 Toxicity	No data available.
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
12.6 Endocrine disrupting properties	This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.
12.7 Other Adverse effects	Not known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	Product is covered by the regulations on hazardous waste. HP 4 – Irritant (skin irritation and eye damage). Dispose of contents/container to an approved waste disposal plant. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended by UK law.
EWC code	New applicable.
Specific labelling	
Contaminated packing	Packaging containing residues of the product must be disposed of similarly to the product.

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SECTION 14: Transport information

14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other Information
ADR -	-	-	-	-	-
IMDG -	-	-	-	-	-
IATA -	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information Not dangerous goods according to ADR, IATA and IMDG.**14.6 Special precautions for user** Not applicable.**14.7 Maritime transport in bulk according to IMO instruments**

No data available.

SECTION 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Restrictions for application** Restricted to professional users.**Demands for specific education** No specific requirements.**SEVESO – Categories/dangerous substances**

Not applicable.

Additional information Not applicable.**Sources** Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2 Chemical safety assessment No.**SECTION 16: Other information****Full text of H-phrases as mentioned in section 3**

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

Abbreviations and acronyms

ADN European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway.

ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE Acute Toxicity Estimate.

BCF Bioconcentration Factor.

CAS Chemical Abstracts Service.

CE Conformance Européenne.

CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No 1272/2008].

CSA Chemical Safety Assessment.

CSR Chemical Safety Report.

DMEL Derived Minimal Effect Level.

DNEL Derived No Effect Level.

EINECS European Inventory of Existing Commercial chemical Substances.

ES Exposure Scenario.

EUH statement – CLP – specific Hazard statement.

EWC European Waste Catalogue.

GHS Globally Harmonised System of Classification and Labelling of Chemicals.

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IARC	International Agency for Research on Cancer (IARC).
IATA	International Air Transport Association.
IBC	Intermediate Bulk Container.
IMDG	International Maritime Dangerous Goods.
LogPow	logarithm of the octanol/water partition coefficient.
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" – marine pollution).
OECD	Organisation for Economic Co-operation and Development.
PBT	Persistent, Bioaccumulative and Toxic.
PNEC	Predicted No Effect Concentration.
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail.
RRN	REACH Registration Number.
SCL	A specific concentration limit.
SVHC	Substances of Very High Concern.
STOT-RE	Specific Target Organ Toxicity – Repeated Exposure.
STOT-SE	Specific Target Organ Toxicity – Single Exposure.
TWA	Time weighted average.
UN	United Nations.
UVBC	Unknown or variable composition, complex reaction products or of biological materials.
VOC	Volatile Organic Compound.
vPvB	Very Persistent and Very Bioaccumulative.

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No 1272/2008 (CLP) as retained and amended in UK law.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

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4

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15/11/2019

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