

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

1.1 Product identifier

Product name	10-4-4
REACH registration notes	This Mixture is exempt from REACH registration according to Regulation (EC) No 1907/2006 (REACH).

1.2 <u>Relevant identified uses of the substance or mixture and uses advised against</u>

Identified uses Fertiliser

1.3 Details of the supplier of the safety data sheet

Supplier

Angus Horticulture Polmood, Guthrie Forfar, Angus, DD8 2TW <u>sales@angus-horticulture.co.uk</u>

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 (EC1272/2008)

Physical hazards	Not classified	
Health hazards	Eye Irrit 2	H318
Environmental hazards	Not classified	

2.2 Label elements

Hazard pictograms



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Signal word	Danger
Hazard statements	EUH208 contains nickel sulfate. May produce an allergic reaction H318 Causes serious eye damage
Precautionary statements	 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. P310 Immediately all a POISON CENTRE/Doctor
Contains	Calcium Nitrate
Supplementary Precautionary Statements	
	P264 Wash contaminated skin thoroughly after handling
	P321 Specific treatment (see medical advice on this label)
	P330 Rinse mouth
	P332+P313 If skin irritation occurs: Get medical advice/attention
	P362+P364 Take off contaminated clothing and wash it before use

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

Calcium NitrateCAS Number: 15245-12-2ClassificationAcute Tox 4H302Eye Dam 1H318	EC Number: 239-289-5 REACH registration Number: 01-2119488967-16-XXXX Classification (67/548/EEC or 1999/45/EC) Xn; R22 Xi; R41	10-30%
Iron (II) sulfate CAS Number: 7720-78-7 Classification Acute Tox 4 H302 Skin Irrit 2 H315 Eye Irrit 2 H319	EC Number: 231-753-5	5-10%
SSP Single Superphosphate CAS Number: 8011-76-5 Classification Eye Irrit 2 H319	EC Number: 232-379-5 REACH registration Number: 01-2119488967-11-XXXX Classification (67/548/EEC or 1999/45/EC) Xi; R41	5-10%
Powder TSP CAS Number: 65996-95-4 Classification Eye Irrit 2 H319	EC Number: 266-030-3 REACH registration Number: 01-2119493057-33-XXX Classification (67/548/EEC or 1999/45/EC) Xi; R41	5-10%
Calmag Magnesium Oxide CAS Number: 1309-48-4 Classification Not classified	EC Number: 215-171-9	1-5%

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

General information	Get medical attention if any discomfort continues
Inhalation	Get medical attention if symptoms are severe or persist
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. 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	Prolonged contact may cause redness, irritation and dry skin. The product contains a small
	amount of sensitising substance. May cause allergic skin reaction.
Eye contact	Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Not applicable

5.2 Special hazards arising from the substance or mixture

Special hazards		None known
<u>5.3</u>	Advice for firefighters	

Protective actions during	Evacuate area. Cool containers exposed to heat with water spray and remove them from the
firefighting	fire area if it can be done without risk. Control run-off water by containing and keeping it out
	of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment	Use protective equipment appropriate for surrounding materials. Wear positive-pressure
firefighters	self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's
	clothing conforming to European standard EN469 (including helmets, protective boots and
	gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid inhalation of dust and contact with skin and eyes. Use suitable 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

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

Methods for cleaning upTake care as floors and others surfaces may become slippery. Avoid generation and
spreading of dust. Collect spillage with a shovel and broom, or similar and reuse, if possible.
Containers with collected spillage must be properly labelled with correct contents and hazard
symbol. Dispose of contents/container in accordance with national regulations. Do not
empty into drains. Collect and dispose of spillage as indicated in Section 13

6.4 Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.



SECTION 7: Handling and storage

7.1 Precautions for safe handling

Usage precautions Advice on general occupational hygiene	Read label before use. Wear appropriate clothing to prevent repeated or prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes. Do not eat, drink or smoke when using this product. 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, i	including any incompatibilities	
Storage precautions	Store in a dry place. Keep container in a well-ventilated place. Keep out of reach of children. Store away from incompatible materials (see Section 10)	
7.3 Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2	
SECTION 8: Exposure cont	rols/Personal protection	
8.1 Control parameters Occupati	onal exposure limits	
Calmag Magnesium Oxide	Long-term exposure limit (8-hour TWA); WL 10 mg/m³ inhalable dust as Mg Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ fume and respirable dust as Mg	
	WEL = Workplace Exposure Limit	
Calcium Nitrate (CAS: 15245-12-2)		
DNEL	Workers - Dermal; Long term systemic effects: 13.9 mg/kg/day. Workers - Inhalation; Long term systemic effects: 98 mg/m ³	
PNEC	- Fresh water; 0.45 mg/l - Marine water; 0.045 mg/l - Intermittent release; 4.5 mg/l - STP; 18 mg/l	
	SSP Single Superphosphate (CAS: 8011-76-5)	
DNEL	Workers – Inhalation; Long term systemic effects: 3.1 mg/m ³ Workers – Dermal; Long term systemic effects: 17.4 mg/kg/day 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	



8.2 Exposure Controls

Protective equipment



Appropriate engineering controls Eye/Face Protection Hand Protection Other skin & body protection Hygiene measures Respiratory protection All handling should only take place in well-ventilated areas Wear eye protection Wear protective gloves Wear appropriate clothing to prevent repeated or prolonged skin contact Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product 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
рН	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

Other information

No information required



SECTION 10: Stability & Reactivity

<u>10.1</u>	<u>Reactivity</u>	
Reactivity		No test data specifically related to reactivity available for this product or its ingredients
<u>10.2</u>	Chemical Stability	
Stabil	ity	Stable when stored in a dry place
<u>10.3</u>	0.3 Possibility of hazardous reactions	
Possik	pility of hazardous reactions	No potentially hazardous reactions known
<u>10.4</u>	Conditions to avoid	
Condi	tions to avoid	There are no known conditions that are likely to result in hazardous situation
<u>10.5</u>	Incompatible materials	
Mate	rials to avoid	Water, moisture
10.6 Hazardous decomposition products		
Hazardous decomposition products None known		

SECTION 11: Toxicological Information

<u>11.1</u> Information on toxicological effects

<u>Acute toxicity – oral</u> ATE oral (mg/kg)	2,376.43		
<u>Acute toxicity – dermal</u> Notes (dermal LD₅o)	No specific test data are available		
<u>Acute toxicity – inhalation</u> Notes (inhalation LC₅₀)	No specific test data are available		
Skin corrosion/irritation Skin corrosion/irritation	Based on available data the classification criteria are not met.		
Serious eye damage/irritation Serious eye damage/irritation	Causes serious eye damage. In-vitro testing conducted on products with SSP 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.		
Respiratory sensitisation Respiratory sensitisation	No specific test data are available		
<u>Skin sensitisation</u> Skin sensitisation	Based on available data the classification criteria are not met. Contains a small amount of skin sensitising substance. May cause irritation.		
<u>Germ cell mutagenicity</u> Genotoxicity – in vitro	This substance has no evidence of mutagenic properties		
<u>Carcinogenicity</u> Carcinogenicity	No specific test data are available.		
<u>Reproductive toxicity</u> Reproductive toxicity – fertility	Based on available data the classification criteria are not met.		

Not classified as a specific target organ toxicant after a single exposure

Specific target organ toxicity - single exposure

STOT – single exposure



Specific target organ toxicity – repe	pated exposure			
STOT – repeated exposure	Not classified as a specific target organ toxicant after repeated exposure			
Assignation because				
Aspiration hazard Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure			
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Skin contact	May cause skin irritation. The product contains a small amount of sensitising substance. May			
Eye contact	cause an allergic reaction Causes serious eye damage			
SECTION 12: Ecological inj	formation			
Ecotoxicity	Contains Nickel Sulphate. The product is not expected to be hazardous to the environment. The product is not expected to be toxic to aquatic organisms. Not regarded as dangerous for the environment. No negative effects on the aquatic environment are known.			
<u>12.1</u> <u>Toxicity</u>				
12.2 Persistence and degradability				
Persistence and degradability	The product is slowly degradable			
12.3 Bio-accumulative potential				
Partition coefficient	Not known			
12.4 Mobility in soil				
Mobility	No data available			
12.5 Results of PBT and vPvB assessment				
Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB				
12.6 Other Adverse effects				
Other adverse effects	Not relevant			
SECTION 13: Disposal considerations				
13.1 Waste treatment methods				
General Information Dispose of waste to licensed waste disposal site in accordance with the requirements				
Disposal mothods	local Waste Disposal Authority.			

 Disposal methods
 The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Only store in correctly labelled containers. Dispose of the contents/container in accordance with national regulations. No specific disposal method required. Do not empty into drains.



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	4.5 Environmental hazards			
Environmental hazardous substance/marine pollutant No				
14.6 Special precautions for user Not applicable				
14.7 Transport in bulk to Annex II of MARPOL and the IBC Code				
Transport in bulk according 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).

<u>15.2</u> Chemical safety assessment No chemical safety assessment has been carried out



SECTION 16: Other information

Abbreviations & Acronyms		
Used in the safety data sheet	ATE	Acute Toxicity Estimate
	ADR	European Agreement concerning the International Carriage of Dangerous Goods by
		Road
	ADN	European Agreement concerning the International Carriage of Dangerous Goods by
		Inland Waterways
	CAS	Chemical Abstracts Service
	DNEL	Derived No Effect level
	GHS	Globally Harmonised System
	IATA	International Air Transport Association
	IMDG	International Maritime Dangerous Goods
	ICAO-TI	Technical Instructions for the Safe Transport of Dangerous Goods by Air
	LC₅o	Lethal Concentration to 50% of a test population
	LD₅o	Lethal Dose to 50% of a test population (Median Lethal Dose)
	PBT	Persistent, Bio-accumulative and Toxic substance
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC)
		No 1907/2006
	SVHC	Substances of Very High Concern
	vPvB	very Persistent and very Bio-accumulative
	сАТрЕ	converted Acute Toxicity point Estimate
	LOAEC	Lowest Observed Adverse Effect Concentration
	LOAEL	Lowest Observed Adverse Effect Level
	EC ₅₀	50% of maximal Effective Concentration
	NOAEL	No Observed Adverse Effect Level
	NOEC	No Observed Effect Concentration
	LOEC	Lowest Observed Effect Concentration
	DMEL	Derived Minimal Effect Level
Risk phrases in full	R20/22	Harmful by inhalation and if swallowed
•	R22	Harmful if swallowed
	R36/38	Irritating to eyes and skin
	R38	Irritation to skin
	R41	Risk of serious damage to eyes
	R42/43	May cause sensitisation by inhalation and skin contact
	R48/23	Toxic; danger of serious damage to health by prolonged exposure through
		inhalation
	R49	May cause cancer by inhalation
	R50/53	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic
		environment
	R61	May cause harm to the unborn child
	R68	Possible risk of irreversible effects
Hazard statements in full	H302	Harmful if swallowed
	H315	Causes skin irritation
	H318	Causes serious eye damage
	H319	Causes serious eye irritation
	H319	Causes serious eye damage
	EUH208	
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