

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Miracle-Gro Push & Feed for all plants  
Product code : 220000002246  
Other means of identification : 119900

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Use of the substance/mixture : Fertilisers

##### 1.2.2. Uses advised against

No additional information available

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

Evergreen Garden Care UK Ltd  
1, Archipelago  
Lyon Way  
GU16 7ER Frimley - United Kingdom  
T 01276 401300  
E-mail address of competent person responsible for the SDS : [info-sds@evergreengarden.com](mailto:info-sds@evergreengarden.com)

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	24hr Emergency Telephone Number		+44 (0) 1865 407 333	Will route to NCEC out of hours.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P273 - Avoid release to the environment.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
AMMONIUM NITRATE	(CAS-No.) 6484-52-2 (EC-No.) 229-347-8	25 - 40	Ox. Liq. 2, H272 Eye Irrit. 2, H319
sodium ferredetate, anhydrous	(CAS-No.) 15708-41-5 (EC-No.) 239-802-2	0.1 - 1	Not classified
copper sulphate	(CAS-No.) 7758-98-7 (EC-No.) 231-847-6 (EC Index-No.) 029-004-00-0	0.1 - 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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manganese sulphate	(CAS-No.) 7785-87-7 (EC-No.) 232-089-9 (EC Index-No.) 025-003-00-4	0.1 - 1	Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 2, H411
disodium tetraborate, anhydrous; boric acid, disodium salt substance listed as REACH Candidate (Disodium tetraborate, anhydrous)	(CAS-No.) 1330-43-4 (EC-No.) 215-540-4 (EC Index-No.) 005-011-00-4	0.1 - 1	Eye Irrit. 2, H319 Repr. 1B, H360FD

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
disodium tetraborate, anhydrous; boric acid, disodium salt	(CAS-No.) 1330-43-4 (EC-No.) 215-540-4 (EC Index-No.) 005-011-00-4	( 4.5 =<C < 100) Repr. 1B, H360FD

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. If eye irritation persists: Seek medical advice.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water.
Unsuitable extinguishing media	: high volume water jet. Dry powder. Dry sand. Foam.

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

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Nitrogen oxides. Phosphorus oxides. Ammonia solution.
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### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area.
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#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions	: Store in a well-ventilated place. Keep cool.
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### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### sodium ferredetate, anhydrous (15708-41-5)

##### United Kingdom - Occupational Exposure Limits

WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
WEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

##### copper sulphate (7758-98-7)

##### EU - Occupational Exposure Limits

Local name	Copper(II) sulfate
IOELV TWA (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup> (respirable fraction)
Notes	(Year of adoption 2014)
Regulatory reference	SCOEL Recommendations

##### manganese sulphate (7785-87-7)

##### EU - Occupational Exposure Limits

Local name	Manganese (II) sulphate
IOELV TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (inhalable fraction) 0.05 mg/m <sup>3</sup> (respirable fraction)
Notes	(Year of adoption 2011)
Regulatory reference	SCOEL Recommendations

##### disodium tetraborate, anhydrous; boric acid, disodium salt (1330-43-4)

##### United Kingdom - Occupational Exposure Limits

Local name	Disodium tetraborate, anhydrous
WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Hand protection:

Protective gloves. Nitrile rubber gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Granules.
Colour	: Brown. Green.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available

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Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosion limits	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot, etc.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### AMMONIUM NITRATE (6484-52-2)

LD50 oral rat	2217 mg/kg
LD50 dermal	> 5000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 88.8 mg/l/4h

#### sodium ferredetate, anhydrous (15708-41-5)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 2.05 g/m <sup>3</sup>

#### copper sulphate (7758-98-7)

LD50 oral rat	300 mg/kg
LD50 dermal rabbit	1000 mg/kg

#### manganese sulphate (7785-87-7)

LD50 oral rat	2125 mg/kg
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disodium tetraborate, anhydrous; boric acid, disodium salt (1330-43-4)	
LD50 oral rat	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2 mg/m <sup>3</sup> 4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

### AMMONIUM NITRATE (6484-52-2)

LC50 fish 1	65 - 85 mg/l 48h Cyprinus carpio LC50 semi-static
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### copper sulphate (7758-98-7)

LC50 fish 1	0.1 mg/l
EC50 Daphnia 1	0.024 mg/l

### disodium tetraborate, anhydrous; boric acid, disodium salt (1330-43-4)

LC50 fish 1	340 mg/l Limanda limanda
EC50 Daphnia 1	1085 - 1402 mg/l Daphnia magna
EC50 96h algae (1)	158 mg/l Desmodesmus subspicatus

### 12.2. Persistence and degradability

#### sodium ferredetate, anhydrous (15708-41-5)

Persistence and degradability	Biodegradable in water.
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### 12.3. Bioaccumulative potential

#### AMMONIUM NITRATE (6484-52-2)

Log Pow	-3.1
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#### sodium ferredetate, anhydrous (15708-41-5)

Log Pow	-10.6
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Component	
disodium tetraborate, anhydrous; boric acid, disodium salt (1330-43-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	UN 2071	UN 2071	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	AMMONIUM NITRATE BASED FERTILIZER	Ammonium nitrate based fertilizer	Not regulated	Not regulated
<b>Transport document description (ADR)</b>				
Not regulated	UN 2071 AMMONIUM NITRATE BASED FERTILIZER, 9, III	UN 2071 Ammonium nitrate based fertilizer, 9, III	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	9	9	Not regulated	Not regulated
Not regulated			Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	III	III	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Not regulated	Not regulated

No supplementary information available

#### 14.6. Special precautions for user

##### Overland transport

Not regulated

##### Transport by sea

Special provisions (IMDG) : 186, 193  
 Packing instructions (IMDG) : P002, LP02  
 IBC packing instructions (IMDG) : IBC08  
 IBC special provisions (IMDG) : B3  
 Tank instructions (IMDG) : BK2  
 EmS-No. (Fire) : F-H  
 EmS-No. (Spillage) : S-Q  
 Stowage category (IMDG) : A  
 Stowage and handling (IMDG) : SW26  
 Properties and observations (IMDG) : Usually granules. Wholly or partly soluble in water. These mixtures may be subject to self-sustaining decomposition if heated. The temperature in such a reaction can reach 500°C. Decomposition, once initiated, may spread throughout the remainder, producing gases which are toxic. None of these mixtures is subject to the explosion hazard. Transport of AMMONIUM NITRATE liable to self-heating sufficient to initiate decomposition is prohibited.

##### Air transport

PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Y958  
 PCA limited quantity max net quantity (IATA) : 30kgG  
 PCA packing instructions (IATA) : 958  
 PCA max net quantity (IATA) : 200kg

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CAO packing instructions (IATA)	: 958
CAO max net quantity (IATA)	: 200kg
Special provisions (IATA)	: A90
ERG code (IATA)	: 9L

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

### 14.7. 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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
30.	disodium tetraborate, anhydrous; boric acid, disodium salt
58.	AMMONIUM NITRATE

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Disodium tetraborate, anhydrous (EC 215-540-4, CAS 1330-43-4)

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Liq. 2	Oxidising Liquids, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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H412	Harmful to aquatic life with long lasting effects.
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SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*