

## SAFETY DATA SHEET – SB FlexBio 18.0.3 Ca, Mg, Mn, B + Nitrate

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name: SB FlexBio 18.0.3 Ca, Mg, Mn, B + Nitrate

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

Product Use: Fertiliser

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

Supplier: Soil Biology Ltd, Unit 30 Branbridges Industrial Estate, East Peckham TN12 5HF UK

Contact: Tel: +44(0)1892 883759 info@soilbiology.uk

1.4 Emergency telephone number: HSE incident contact centre: 0845 3009923

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification according to 1272/2008 CLP

Acute Tox. 4 – H302.

Skin Irrit. 2 – H315.

Eye Dam. 1 – H318.

Aquatic Chronic 3 – H412

#### Label elements 1272/2008 CLP:

Hazard pictograms:



Signal word: Danger

#### Hazard statements:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

Prevention:

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe mist/vapours/spray.

P264 Wash exposed areas thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P302+352: IF ON SKIN: Wash with soap and water.

P305+351+338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTRE or doctor/physician.

P308/313 IF exposed or concerned; Get medical advice/attention

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P362 Take off contaminated clothing and wash before reuse.

**Storage:** The fertilizer must be stored in tanks of fiberglass, other synthetics, treated steel or other material that will not corrode. The tanks must be collected and brought back into the system or neutralized with lime.

**Disposal:** P501 Dispose of contents/container to an approved waste disposal plant.

**2.2 Other hazards :** This mixture does not meet the criteria for PBT or vPvB according to Regulation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
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### 3.1/2 Substance/Mixture

CAS/EC-nr.	REACH-nr	Name	Content %	Classification CLP
57-13-6		Urea	10 – 52 %	
7664-38-2 / 231-633-2	01-2119485924-24-XXXX	Phosphoric acid	0 – 1 %	Skin Corr. 1B; H314
10043-35-3/233-139-2		Boric acid	0 -3 %	H360FD
7757-79-1 / 231-818-8	01-2119488224-35-XXXX	Potassium nitrate	0 – 15 %	Ox. Sol. 3; H272
1043-52-4 / 233-140-8	01-2119464219-28-XXXX	Calcium Chloride	0 – 22 %	Eye Irrit. 2; H319
10124-37-5 / 233-332-1	01-211945093-35-XXXX	Calcium nitrate	0 – 35 %	Acute Tox. 4; H302, Eye Dam. 1 H318
7791-18-6/232-094-6		Magnesium Chloride	0 - 33%	H317, Skin Irrit.
20694-39-7 / 233-828-8		Manganese (II) nitrate tetrahydrate	0 – 3 %	Ox. Sol. 3; H272, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE; H335
593-50-0/209-794-5		Plant Extract	<1%	
68476-78-8		Carbohydrate	<5%	

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### 3.3 Additional information:

See full text of H-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General information:** Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air. Get medical attention if any discomfort continues.

**Inhalation:** Assure fresh air breathing. Get medical attention if any discomfort continues.

**Skin contact:** Flush contaminated skin with water and soap. Medical attention if any discomfort continues.

**Eye contact:** Remove contact lenses. Flush eyes with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical attention immediately.

**Ingestion:** Do not induce vomiting. Get medical attention.

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

**Eyes:** May cause irritation, redness, tears.

**Skin:** Irritation, redness. The fertilizer is not aggressive to the skin, but the high salt concentration will give a burning sensation.

**Inhalation:** May cause irritation.

**Ingestion:** May cause discomfort.

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

### SECTION 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing media:** Use appropriate media for adjacent fire.

**5.2 Special hazards arising from the substance or mixture:** Fire may produce toxic fumes, avoid inhalation.

**5.3 Advice for firefighters:** Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

See section 8 for recommendations on the use of personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapours/mists.

**6.2 Environmental precautions:** Prevent entry to sewers and public waters.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

#### 6.4 Reference to other sections:

For guidance on selection of personal protective equipment see Chapter 8 of this safety data sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet.

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### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

See section 8 for recommendations on the use of personal protective equipment. Wash hands and other exposed areas with mild soap and water before you eat, drink or smoke. Avoid contact with skin and eyes. Avoid breathing vapours/mists. Ensure good ventilation at the workplace.

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

Keep container tightly closed in a cool, well-ventilated place.

Keep away from heat sources. Keep only in original packaging.

Protect from frost. Keep away from food and feedstuffs.

The fertilizer must be stored in tanks of fiberglass, other synthetics, treated steel or other material that will not corrode. The tanks must be collected and brought back into the system or neutralized with lime.

Minimum storage temperature 5°C

#### 7.3 Specific end use(s): See section 1.2

### SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### 8.1 Control parameters

##### Occupational exposure limits EH40/2007:

CAS-no:	Name:	Limits 8 h:	Limits 15 min.:	Ref:
7664-38-2	Phosphoric acid	1 mg / m3	1 mg / m3	EH40 / 2005

DNEL / PNEC -

#### 8.2 Exposure controls

**Appropriate technical measures:** Ensure adequate ventilation of the working area.

**General information:** We recommend to wear eye protection and gloves at all times.



#### Personal protective equipment:

**Hand protection:** Wear protective gloves. The fertilizer is not aggressive to the skin, but the high salt concentration will give a burning sensation.

**Eye protection:** Wear protective goggles. If the fertilizer gets into the eyes, rinse immediately with plenty of water and see a doctor.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance:	Colour:	Odour:	pH 20C	Viscosity:

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Liquid	Brown	Fertiliser	3 – 7	-
<b>Flash Point:</b>	<b>Boiling Point:</b>	<b>Vapour Pressure:</b>	<b>Density g/cm<sup>3</sup>:</b>	<b>Melting Point:</b>
-	-	-	1.1–1.3	-
<b>Ignition Temperature:</b>	<b>Auto-ignition Temperature:</b>	<b>Explosive limits vol% :</b>	<b>Solubility in water 20C:</b>	
-	-	-	-	

9.2 Other information: -

### SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** None under normal conditions of use.

**10.2 Chemical stability:** Stable under normal conditions.

**10.3 Possibility of hazardous reactions:** None under normal conditions

**10.4 Conditions to avoid:** None known.

**10.5 Incompatible materials:** Strong acids, strong oxidizing agents.

**10.6 Hazardous decomposition products:** Fire may produce toxic fumes, avoid inhalation.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute toxicity:** - Phosphoric acid

Oral: LD50 /OECD 423;      Rat: 2600 mg / kg

Dermal: LD50                      Rabbit: 2740 mg / kg

**Skin Corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation:** Causes serious eye damage.

**Respiratory or skin sensitisation:** Not classified.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** Not classified.

**Specific target organ toxicity – repeated exposure:** Not classified.

**Aspiration hazard:** Harmful if swallowed.

**Additional information:** -

### SECTION 12. ECOLOGICAL INFORMATION

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**Toxicity: -- Phosphoric acid**

Fish: LC50: 96 h 3-3, 25 mg / l Daphnia: LC50: 48 h > 100 mg / l

**12.1**

**12.2 Persistence and degradability:** No data available.

**12.3 Bio accumulative potential:** No data available.

**12.4 Mobility in soil:** No data available.

**12.5 Result of PBT and vPvB assessment:** This mixture does not meet the criteria for PBT or vPvB according to regulation.

**12.6 Other adverse effects:**

**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

**EWC:** 02 01 06

**Contaminated packing:** Packaging which contains leftovers from the product must be disposed of in the same way as the product.

**SECTION 14. TRANSPORT INFORMATION**

This product is not classified as dangerous for transport.

	ADR/RID	IMDG/IMO
<b>14.1 UN number</b>		
<b>14.2 UN proper shipping name</b>		
<b>14.3 Transport hazard class(es)</b>		
<b>14.4 Packing group</b>		
<b>14.5 Environmental hazards – MP</b>	No	No
<b>Other information</b>	LQ: - Tunnel; -	LQ: - Tunnel; -

**14.6 Special precautions for user: -**

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

**SECTION 15. REGULATORY INFORMATION**

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

Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal

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Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC

## Other regulatory information authorisations and/or restrictions on use

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC. Pregnant or breastfeeding women must not handle this product.

**Additional information:** -

## 15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION
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## Full text of H-phrases as mentioned in section 3:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

## Additional information:

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.

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