



## SAFETY DATA SHEET

Product Name: 28.9-9.6-14.5 +TE Soluble Fertiliser

Revision number: 001  
(First version)

Dated: 07/07/20

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

#### 1.1 Product Identifier:

Product Name: 28.9-9.6-14.5 +TE soluble fertiliser

Product Number: 28.9-9.6-14.5/TE/SOL/...

**Relevant Identified Uses:** Horticultural fertiliser

#### 1.2 Details of the Supplier of SDS:

GreenBest Ltd, Unit 2 The Marsh, Henstridge, Somerset, BA8 0TF  
TEL: +44 (0) 1963 364788 Fax: +44 (0) 1963 364789  
[info@greenbest.co.uk](mailto:info@greenbest.co.uk)

#### 1.3 Emergency Telephone Number:

+44 (0) 1963 634788 – Normal hours are 07:30-16:30 Mon-Fri.  
+44 (0) 7801 644405 – Out of normal hours only.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance of mixture according to Regulation (EC) No.1272/2008:

**Physical hazards:** Oxidising solids, Category 3; H272

**Health hazards:**; Repr. 1B: H360FD

**Environmental hazards:** None

#### 2.2 Label elements:

Pictogram:



Signal word: Danger

Hazard statements:

H code	Statement
H302	Harmful if swallowed
H360FD	May damage fertility. May damage the unborn child

Precautionary statements:

P code	Statement
P220	Keep away from clothing and other combustible materials

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P280	Wear protective gloves/clothing/eye protection/face protection
P301+P310	IF SWALLOWED: Immediately call POISON CENTRE/Doctor
P304+P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing
P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention

Supplementary precautionary statements:

Code	Statement
P260	Do not breathe dust
P314	Get medical advice/attention if you feel unwell
P273	Avoid release to the environment
P310	Immediately call a POISON CENTRE/doctor
P330	Rinse mouth
P362	Take off contaminated clothing and wash before re-use
P391	Collect spillage
P405	Store locked up
P501	Dispose of contents/container in accordance with national regulations.

### 2.3 Other hazards:

This product is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS.

Substance	CAS Number	EC Number	REACH Registration Number	%	Classification according to Regulation (EC) No 1278/2008 (CLP)
Boric Acid	10043-35-3	233-139-2	N/A	1.2-1.3	H360FD: May damage fertility. May damage the unborn child.
Potassium Nitrate	7757-079-1	231-818-8	N/A	32-33	Oxidising solids, Category 3; H272

All other ingredients do not require classification according to Regulation (EC) No 1278/2008 (CLP)

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**SECTION 4. FIRST AID MEASURES****4.1 Description of first aid measures:**

**4.1.1 Inhalation:** Move affected person to fresh air immediately. Keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

**4.1.2 Skin Contact:** Rinse with plenty of water for at least 15 minutes. Remove contaminated clothing and wash thoroughly with detergent before re-use. If irritation persists or worsens seek medical attention.

**4.1.3 Eye Contact:** Irrigate thoroughly with water for at least 15 minutes. Remove contact lenses if safe to do so. Obtain medical attention. Continue to rinse.

**4.1.4 Ingestion:** Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:**

**4.2.1 Inhalation:** High inhalation exposures can exert mechanical irritations of the mucosa of the respiratory tract. Prolonged or repeated exposure may cause the following adverse effects: Central and/or peripheral nervous damage. Brain damage.

**4.2.2 Skin contact:** Skin irritant. Contact may cause redness, itching, burning and skin damage.

**4.2.3 Eye contact:** Eye irritant. Contact may cause stinging, watering, redness and swelling.

**4.2.4 Ingestion:** Nausea, vomiting, abdominal pain. Lack of symptoms within the first 6 hours makes significant toxicity unlikely.

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

General information: None under normal use

**SECTION 5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media:**

Substance is non-combustible, but has an oxidizing effect.  
Cool surrounding containers with water spray.  
If possible, take container out of dangerous zone.

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Heating causes a rise in pressure, risk of bursting and explosion.

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

May give off fumes if heated to decomposition. Do not breathe fumes.

### 5.3 Advice for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers, Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

### 6.2 Environmental precautions:

Avoid pollution of sewers and watercourses.

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

Contain and sweep up spillages. Place unusable material in clearly labelled containers or plastic bags for disposal. Wet residues are slippery, wash floors to remove all traces.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of spray or vapour. Wash hands thoroughly after handling. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

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

#### Storage:

Do not use any food containers - risk of mistake.  
Containers have to be labelled clearly and permanently.  
Store in the original container as much as possible.  
Keep container tightly closed.  
Storage temperature: Without any limitation.  
Store in a dry place.  
Store apart from sources of ignition and heat.

#### Conditions of collocated storage:

Storage class 5.1 B (Oxidizing substances)

Only substances of the same storage class should be stored together.

Collocated storage with the following substances is prohibited:

- Pharmaceuticals, foods, and animal feeds including additives.
- Infectious, radioactive and explosive substances.
- Gases.
- Aerosols (spray bottles).
- Other explosive substances of storage class 4.1A.
- Pyrophoric substances.
- Substances liberating flammable gases in contact with water.
- Organic peroxides and self reactive substances.

Under certain conditions the collocated storage with the following substances is permitted:

- Flammable liquids of storage class 3.
- Flammable solid substances or desensitized substances of storage class 4.1B.
- Ammonium nitrate and preparations containing ammonium nitrate.
- Combustible and non combustible acutely toxic substances of storage classes 6.1A and 6.1B.
- Combustible toxic or chronically acting substances of storage class 6.1C.
- Noncombustible toxic or chronically acting substances of storage class 6.1D.
- Combustible corrosive substances of storage class 8A.
- Combustible liquids of storage class 10.
- Combustible solids of storage class 11.

The substance should not be stored with substances with which hazardous chemical reactions are possible.



### 7.3 Specific end uses: For use only as a horticultural fertiliser.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

N/A

### 8.2 Exposure Controls:

Protective equipment	
	Nitrile gloves may be worn for personal hygiene purposes
	Wear coverall and rubber boots when dealing with bulk spillages
	Face shield with suitable protection
Appropriate Engineering controls	Provide adequate ventilation Avoid inhalation of dust Observe any occupational exposure limits for the product

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	Mechanical ventilation or local exhaust ventilation may be required
Eye/face protection	Wear tight-fitting chemical splash goggles or face shield Personal protective equipment for eye and face protection should comply with European Standard EN166
Hand protection	Chemical resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Provide eyewash station and safety shower. Wear appropriate clothing to prevent skin contact
Hygiene measures	Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Granular
Colour	Multicolour
Odour	Product specific
Odour threshold	Not determined
pH value	N/A
Initial melting point (°C)	N/A
Initial boiling point and boiling range(°C)	N/A
Flash point	N/A
Flammability(solid)	Product is non-flammable
Ignition temperature(°C)	N/A
Decomposition temperature(°C)	N/A
Self-flammability(°C)	N/A
Danger of explosion(°C)	Not explosive but may act as an oxidiser in fire
Vapour pressure	N/A

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Bulk density	N/A
Vapour density	N/A
Evaporation rate	N/A
Solubility in/miscibility with water at 20 °C	N/A
Partition coefficient(n-octanol/water)	N/A
Viscosity dynamic at 20 °C	N/A

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity:

Stable product under recommended storage and handling conditions.

#### 10.2 Chemical stability:

Stable product under recommended storage and handling conditions.

#### 10.3 Possible hazardous reactions:

Stable product under recommended storage and handling conditions.  
Contains Potassium Nitrate which may act as an oxidiser in fire.

#### 10.4 Conditions to avoid:

None known

#### 10.5 Incompatible materials:

None known

#### 10.6 Hazardous decomposition products:

Sulphurous gases. Manganese oxides. Hydrogen ionide. Metal oxide fume.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

Acute toxicity	Acute Tox. 4: H302;
Skin corrosion/irritation	Skin irritation, Category 2; H315
Serious eye damage/irritation	Serious eye damage, Category 1; H318
Respiratory or skin sensitisation	Skin irritation, Category 2; H315

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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	Repr. 1B: H360FD
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	Not applicable
Inhalation	Based on available data the classification criteria are not met
Ingestion	May cause discomfort if swallowed
Likely routes of exposure	Contact with skin and eyes. Inhalation of dust

**SECTION 12. ECOLOGICAL INFORMATION****12.1 Toxicity:**

May release ammonium ions that are toxic to fish. Unionized ammonia concentrations > 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream.

**12.2 Persistence and degradability:**

Product is biodegradable.

**12.3 Bioaccumulative potential:**

Product does not bioaccumulate.

**12.4 Mobility in soil:**

Not determined

**12.5 Results of PBT and vPvB assessment:**

Does not fulfil the criteria for classification as PBT or vPvB.

**12.6 Other adverse effects:**

None known.

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### SECTION 13. DISPOSAL CONSIDERATION

**Product:** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local waste disposal authority. Residues should be taken care of as hazardous waste according to local and national provisions.

**Packaging:** Treat as industrial waste. Empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 14. TRANSPORT INFORMATION

#### General information:

##### 14.1 UN Number:

1486

##### 14.2 UN proper shipping name:

Potassium Nitrate

##### 14.3 Transport hazard class(es):

5.1



##### 14.4 Packing group:

III

##### 14.5 Environmental hazards:

N/A

##### 14.6 Special precaution for user:

Tunnel restriction code (E)

##### 14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC code:

N/A

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### SECTION 15. REGULATORY INFORMATION

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

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).

Guidance: Workplace Exposure Limits EH40.

#### 15.2 Chemical Safety Assessment:

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

### SECTION 16. OTHER INFORMATION

#### Key literature references and sources for data:

[http://gestis.itrust.de/nxt/gateway.dll/gestis\\_en/000000.xml?f=templates&fn=default.htm&vid=gestiseng:sdbeng](http://gestis.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates&fn=default.htm&vid=gestiseng:sdbeng)

<https://echa.europa.eu/>

<http://www.chcs.org.uk/>

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