

SAFETY DATA SHEET

Product Name: 14.7-6.5-25.3 +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: 14.7-6.5-25.3 Soluble Fertiliser

Product Number: 14.7-6.5-25.3/TE/SOL/...

1.2 Relevant Identified Uses: Horticultural fertiliser

1.3 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

1.4 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: Ox. Sol. 3 H272

Health hazards: None

Environmental hazards: None

2.2 Label elements:



Pictogram:

Signal word: Danger

Hazard statements:

| H code | Statement |
|--------|------------------------------|
| H272 | May intensify fire; oxidiser |

Precautionary statements:

| P code | Statement |
|--------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P221 | Take any precaution to avoid mixing with combustibles/... |

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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 | % | Classification according to Regulation (EC) No 1278/2008 (CLP) |
|-------------------|------------|-----------|-------|--|
| Potassium Nitrate | 7757-79-1 | 231-818-8 | 54-55 | Ox. Sol. 3 H272 |

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. Take medical advice immediately.

4.1.2 Skin Contact: Wash immediately with plenty of soap and water. 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 20-30 minutes. Obtain medical attention.

4.1.4 Ingestion: Wash out mouth with water if person is conscious. 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: Respiratory tract irritation.

4.2.2 Skin contact: Skin irritation.

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

4.2.4 Ingestion: Can occur: gastrointestinal disturbance.

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

General information: None under normal use

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SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

All extinguishing media can be used.

5.2 Special hazards arising from the substance or mixture:

Under normal circumstances the product is stable.

On exposure to high temperature, may decompose releasing toxic gases. Oxidising-reacts with combustible materials and increases combustion even in the presence of air. Poisonous nitrous gases may form in case of fire.

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 to minimise dust and/or vapour concentrations. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Equip clean-up crew with proper protection.

6.2 Environmental precautions:

Avoid pollution of sewers and watercourses. Notify local authorities if product enters sewers or public waters.

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. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust. Avoid inhalation of dust. Wash hands thoroughly after handling. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Always obey safety warnings and handle empty

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packaging material as if they were full. Keep away from sources of ignition. Keep away from heat and direct sunlight.

When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking, and when leaving work. Remove contaminated clothing and shoes.

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 if 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 und 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 sub-stances 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:



| | |
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| Protective equipment  | Dust mask with minimum protection factor of 10 with HSE type approval |
| | Nitrile gloves may be worn for personal hygiene purposes |

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|  | |
| | Wear coverall and rubber boots when dealing with bulk spillages |
|  | Face shield (BS2092G1) if handling dust |
| Appropriate Engineering controls | Provide adequate ventilation Avoid inhalation of dust Observe any occupational exposure limits for the product 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. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. Particulate filters should comply with European Standard EN143. Disposable filtering half-mask respirators should comply with European Standard EN149 or EN405 |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------|-----------|
| Physical state | Powder |
| Colour | White |
| Odour | Odourless |

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| Odour threshold | Not applicable |
| pH value | N/A |
| Initial melting point (°C) | N/A |
| Initial boiling point and boiling range(°C) | N/A |
| Flash point | No data available |
| Flammability(solid) | Product is non-flammable |
| Ignition temperature(°C) | N/A |
| Decomposition temperature(°C) | N/A |
| Self-flammability(°C) | Product is not self-igniting |
| Danger of explosion(°C) | Not explosive but may act as an oxidiser in fire |
| Vapour pressure | N/A |
| 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:

Reacts violently with:

Acids.

Combustibles.

Metal powder.

Reducing agents.

10.4 Conditions to avoid:

Contact with combustible material may cause fire.

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10.5 Incompatible materials:

Flammable materials.

Combustibles.

Reducing agent.

10.6 Hazardous decomposition products:

On exposure to high temperature products may decompose releasing toxic gases. (+/- 400°C)

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:**

| | |
|-----------------------------------|---|
| Acute toxicity | Based on available data the classification criteria are not met |
| Skin corrosion/irritation | Based on available data the classification criteria are not met |
| Serious eye damage/irritation | Based on available data the classification criteria are not met |
| Respiratory or 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 | Not applicable |
| Inhalation | Prolonged inhalation of high concentrations may damage respiratory system |
| 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:****POTASSIUM NITRATE(7757-79-1)**

LC50 fish 1 1378 mg/l (96h - Poecilia reticulata, OECD 203)

EC50 Daphnia 1 490 mg/l (48h - Daphnia)

EC50 other aquatic organisms 1 > 1000 mg/l (3h - ACTIVATED SLUDGE, OECD 209)

ErC50 (algae) > 1700 mg/l (10 d - Benthic diatoms)

NOEC (additional information) ACTIVATED SLUDGE 180 mg/l OECD 209

12.2 Persistence and degradability:

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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:

Nitrate may cause an eutrophication of natural water.

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**14.1 UN Number:**

1486

14.2 UN proper shipping name:

Potassium Nitrate (UN 1486 POTASSIUM NITRATE, 5.1, III, (E))

14.3 Transport hazard class(es):

5.1

**14.4 Packing group:**

III

14.5 Environmental hazards:

None

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14.6 Special precaution for user:

N/A

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

N/A

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=gestis_seng:sdbeng

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

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

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