

# Safety Data Sheet

## LEGUMEFiX

Safety Data Sheet dated 4/1/2018, version 1



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

#### 1.1. PRODUCT IDENTIFIER

Trade name: **LEGUMEFiX**

#### 1.2. RELEVANT IDENTIFIED USES OF THE ARTICLE/MIXTURE AND USES ADVISED AGAINST

**Recommended use:** Seed treatment for agricultural use

#### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Company:** Legume Technology Ltd, Units 3C & 3D, Kneeton Road, Eastbridgford, Nottinghamshire, NG13 8PJ, United Kingdom

#### 1.4. EMERGENCY TELEPHONE NUMBER

**Phone no.:** +44 1158 240 585

**E-mail:** [info@legumetechnology.co.uk](mailto:info@legumetechnology.co.uk)

**In case of accident, locate the nearest anti-poison centres in the following link:**

WHO <http://apps.who.int/poisoncentres/>

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### SECTION 2: Hazards identification

#### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**EC regulation criteria 1272/2008 (CLP):** the product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

**Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:**

**Properties / Symbols:** None.

**Adverse physicochemical, human health and environmental effects:** No other hazards

#### 2.2. LABEL ELEMENTS

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

**Symbols:** None

**Hazard statements:** None

**Precautionary statements:** None

**Special Provisions:** None

**Special provisions according to Annex XVII of REACH and subsequent amendments:** None

#### 2.3. OTHER HAZARDS

**vPvB Substances:** None

**PBT Substances:** None

**Other Hazards:** Minor risk of sensitisation due to micro-organisms present

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### SECTION 3: Composition/information on ingredients

#### 3.1. SUBSTANCES

Not available

#### 3.2. MIXTURES

**Components:** Peat with *Rhizobium* bacteria (with or without *Bacillus subtilis*)

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## SECTION 4: First aid measures

### 4.1. DESCRIPTION OF FIRST AID MEASURES

**In case of skin contact:** Wash immediately with plenty of water and soap. If irritation persists, call a physician.

**In case of eye contact:** In case of contact with eyes, wash immediately with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

**In case of ingestion:** Wash out mouth with water provided person is conscious. Call a physician.

**In case of Inhalation:** Remove casualty to fresh air and keep warm and at rest. If necessary, get medical attention

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No known symptoms to date.

### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

**Treatment:** No known treatment to date.

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## SECTION 5: Firefighting measures

### 5.1. EXTINGUISHING MEDIA

**Suitable extinguishing media:** Water spray, dry chemical, carbon dioxide or appropriate foam.

**Extinguishing media which must not be used for safety reasons:** None in particular.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Do not inhale explosion and combustion gases.

### 5.3. ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Exercise appropriate precaution to minimize direct contact with skin or eyes and prevent inhalation of dust.

Remove persons to safety.

See protective measures under point 7 and 8.

### 6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

Suitable material for taking up: absorbing material, organic, sand

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust.

Ventilated area and wash spill site after material pickup is complete.

### 6.4. REFERENCE TO OTHER SECTIONS

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes, inhalation of dust.

Avoid formation of dust.

Wear appropriate protective clothing and safety gloves.  
Do not eat, drink or smoking while working.  
See also section 8 for recommended protective equipment.

#### 7. 2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry and well-ventilated place.

Store in a cool place and under inert gas.

Store away from direct light.

Keep material away from heat, sparks and flames.

Keep away from food, drink and feed.

**Incompatible materials:** Store away from herbicides and pesticides.

**Instructions as regards storage premises:** Adequately ventilated premises.

#### 7. 3. SPECIFIC END USE(S)

Industrial use

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### SECTION 8: Exposure controls/personal protection

#### 8. 1. CONTROL PARAMETERS

**DNEL Exposure Limit Values:** Not available

**PNEC Exposure Limit Values:** Not available

#### 8. 2. EXPOSURE CONTROLS

**Eye protection:** Goggles.

**Protection for skin:** Chemical protection clothing.

**Protection for hands:** Use protective gloves.

**Respiratory protection:** In case of insufficient ventilation wear appropriate respiratory equipment.

**Thermal Hazards:** None known to date

**Environmental exposure controls:** Local aspiration and general ventilation system.

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### SECTION 9: Physical and chemical properties

#### 9. 1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid

**Appearance and colour:** Fine black granules

**Odour:** Weak

**pH:** Not applicable

**Melting point / freezing point:** Not applicable

**Solubility in water:** Insoluble

#### 9. 2. OTHER INFORMATION

None

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### SECTION 10: Stability and reactivity

#### 10. 1. REACTIVITY

Stable under normal temperature and pressure.

#### 10. 2. CHEMICAL STABILITY

Stable under normal conditions

#### 10. 3. POSSIBILITY OF HAZARDOUS REACTIONS

None in particular known to date.

#### 10. 4. CONDITIONS TO AVOID

Avoid humidity

#### 10. 5. INCOMPATIBLE MATERIALS

Strong oxidising agents, bases.

## 10. 6. HAZARDOUS DECOMPOSITION PRODUCTS

None

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## SECTION 11: Toxicological information

### 11. 1. INFORMATION ON TOXICOLOGICAL EFFECTS

**Toxicological information of the mixture:** Natural peat containing micro-organisms not infective to humans

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as not available:

- a) acute toxicity;
  - b) skin corrosion/irritation;
  - c) serious eye damage/irritation;
  - d) respiratory or skin sensitisation;
  - e) germ cell mutagenicity;
  - f) carcinogenicity;
  - g) reproductive toxicity;
  - h) STOT-single exposure;
  - i) STOT-repeated exposure;
  - j) aspiration hazard.
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## SECTION 12: Ecological information

### 12. 1. TOXICITY

Adopt good working practices, so that the product is not released into the environment.  
Not available

### 12. 2. PERSISTENCE AND DEGRADABILITY

Readily degradable

### 12. 3. BIOACCUMULATIVE POTENTIAL

Non bioaccumulative

### 12. 4. MOBILITY IN SOIL

Non mobile

### 12. 5. RESULTS OF PBT AND VPVB ASSESSMENT

**vPvB Substances:** None

**PBT Substances:** None

### 12. 6. OTHER ADVERSE EFFECTS

None known to date.

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## SECTION 13: Disposal considerations

### 13. 1. WASTE TREATMENT METHODS

Contact a licensed professional waste disposal service to dispose this material. Dissolve or mix the material with a combustible solvent and burn in chemical incinerator equipped with afterburner and scrubber. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

### 14. 1. UN NUMBER

Not classified as dangerous in the meaning of transport regulations.

### 14. 2. UN PROPER SHIPPING NAME

Not classified as dangerous in the meaning of transport regulations.

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#### 14. 3. TRANSPORT HAZARD CLASS(ES)

Not classified as dangerous in the meaning of transport regulations.

#### 14. 4. PACKING GROUP

Not classified as dangerous in the meaning of transport regulations.

#### 14. 5. ENVIRONMENTAL HAZARDS

Marine pollutant: No.

#### 14. 6. SPECIAL PRECAUTIONS FOR USER

Not classified as dangerous in the meaning of transport regulations.

#### 14. 7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

Not classified as dangerous in the meaning of transport regulations.

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### SECTION 15: Regulatory information

#### 15. 1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Directive (EC) n. 1999/45

Regulation (EC) n. 790/2009 (ATP 1 CLP)

Regulation (EU) n. 453/2010 (Annex I)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

**Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:** None

**Where applicable, refer to the following regulatory provisions:**

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

#### 15. 2. CHEMICAL SAFETY ASSESSMENT

No

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### SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources: ECHA database; GESTIS Database

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

**ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road.

**CAS:** Chemical Abstracts Service (division of the American Chemical Society).

**CLP:** Classification, Labeling, Packaging.

**DNEL:** Derived No Effect Level.

**GHS:** Globally Harmonized System of Classification and Labeling of Chemicals.

**PNEC:** Predicted No Effect Concentration.

**STEL:** Short Term Exposure limit.

**TLV:** Threshold Limiting Value.

**TWATLV:** Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).