

**1.1 Identification of the substance/mixture and of the company/undertaking**

Trade/Product Name: Chemical SB Foundation HFU Leonardite, Humic acid, Lignite  
name:

CAS No: 68525-81-5  
REACH Registration No: Not applicable  
Version no: 1.0

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

Identified uses: Soil conditioner for use in agriculture, horticulture and amenities  
Uses advised against: Not identified

**1.3 Details of the supplier of the safety data sheet:**

Supplier: Soil Biology Ltd  
Address: Unit 30 Branbridges Industrial Estate TN12 5HF

Email: [info@soilbiology.uk](mailto:info@soilbiology.uk)

**1.4 Emergency telephone contact:**

HSE Incident Contact Centre: 0845 300 9923  
General information: 01892 883759  
Only during office hours 08:30 – 17:00 Monday to Friday

**SECTION 2 — HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification of substance/mixture according to Regulation (EC) 1272/2008

The product is not hazardous.

Physical hazards: Not classified  
Health hazards: Not classified  
Environmental hazards: Not classified  
Specific hazards: Not classified  
Main symptoms:

**2.2. Label elements**

Label according to Regulation (EC) No. 1272/2008

The product is not classified as dangerous; therefore, no specific label elements are required.

**2.3. Other hazards**

Other hazards: This product is not identified as PBT or vPvB (See section 12).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1/2 Substances and Mixtures**

Chemical Name	CAS No	EINECS No	%
Humic acid	68525-81-5	271-030-1	100
Quartz	14808-60-7	238-878-4	

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**Inhalation:** Keep patient at rest and maintain body temperature. Remove the victim to a ventilated area. Get medical attention. Give symptomatic and supportive treatment, if required.

**Skin contact:** After contact with skin, remove contaminated clothing and wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

**Eye contact:** Immediately wash affected eyes for at least 15 minutes, taking care to rinse under eyelids. Consult an eye specialist.

**Ingestion:** Rinse mouth with water. Get medical attention and show the label or packaging. Do not induce vomiting. If vomiting occurs, keep victim's head below hips to prevent aspiration.

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

No data available.

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

All treatments should be based on observed signs and symptoms.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** Chemical powder, CO<sub>2</sub>, water spray or alcohol resistant foam  
**Unsuitable extinguishing media:** Information not available

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

None available.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 5.3 Advice for firefighters

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus and personal protective equipment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate and delimit the affected area. Eliminate all sources of ignition.

Use personal protective equipment and respiratory protection. Avoid contact with skin and eyes.

Evacuate personnel to safe areas. Ensure adequate ventilation.

### 6.2. Environmental precautions

Prevent the product reaching the sewer. Prevent soil contamination.

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

Sweep up spilled avoiding dust formation.

For the product, impossible to sweep up, apply water and collect with inert absorbent materials (e.g. soil, sand, diatomaceous earth or any non-flammable absorbent).

Store unusable material collected in adequate containers for disposal. Label these containers and manage in accordance with local regulations. Do not mix with other waste materials.

If there are spills or uncontrolled discharges on surface waters (or water for public use), immediately inform the local authorities.

#### 6.4. Reference to other sections

See Sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

See also Section 8.

Use personal protective equipment (PPE). Avoid contact with skin, eyes and clothing. Keep formation of airborne dusts to a minimum and ensure adequate ventilation.

Do not handle the product near a source of ignition or near open flame.

Do not smoke, drink or eat while handling the product. Wash hands with soap after handling and before eating, drinking, smoking or using the toilet. Remove clothing immediately if the product is inside. Wash skin thoroughly with mild soap and dress in clean clothes.

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

Do not store near or with any of the incompatible materials listed in Section 10. Do not store with food, beverages, feed and water supplies.

Do not store near flame, heat sources or near strong oxidizing agents. Avoid extreme temperatures.

Store the product in the original container.

Keep tightly closed containers in a dry, cool and well ventilated sheltered from the sun. Keep out of reach of unauthorized persons, children and animals.

#### 7.3. Specific end use(s)

See section 1.2

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

DNELs:

DNELs for workers:

1.67 mg/kg bw/day (oral toxicity)

0.42 mg/kg bw/day (reproductive toxicity)

0.83 mg/kg bw/day (developmental toxicity)

DNELs for general population:

0.83 mg/kg bw/day (oral toxicity)

0.21 mg/kg bw/day (reproductive toxicity)

0.42 mg/kg bw/day (developmental toxicity) Predicted No Effect Concentration (PNEC): **PNEC for aqua: 0.077 mg/L**

**PNEC for STP (sewage treatment plant): 10 mg/L**

#### 8.2. Exposure controls

Proper technical controls

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See also Section 7.

Ensure adequate ventilation and/or exhaust ventilation.

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Individual protective measures

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**Respiratory protection:** Use breathing mask with appropriate filter.

**Hand protection:** Use protective gloves.

**Eye protection:** Wear safety glasses with side-shields (e.g. EN 166) or facial protection screen.

**Skin and body protection:** Work clothes, apron and protective boots are recommended.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Have eye wash bottle with distilled water. Remove and wash contaminated clothing before reuse. Wash hands before breaks and immediately after handling.

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Environmental exposure controls

Do not flush into surface waters or sanitary drain systems.



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

**Appearance:** Powder / small granule  
**Colour:** Black / Black-brown  
**Odour:** Odourless  
**Odour threshold:** Not applicable  
**pH:** 3.5 - 5.0  
**Melting point:** Not available  
**Boiling point:** Not available  
**Evaporation rate:** Not available  
**Flash point:** Not available  
**Decomposition temperature:** Not available  
**Auto-ignition temperature:** Not available  
**Flammability:** Not available  
**Explosive properties:** Not available  
**Oxidizing properties:** Not available  
**Vapour pressure:** Not available  
**Vapour density:** Not available  
**Viscosity:** Not available  
**Density:** 0.7 – 0.76 g/cm<sup>3</sup>  
**Solubility:** Not available  
**Partition coefficient n-octanol/water (log Pow):** Not available **Surface tension:** Not available

### 9.2. Other information

No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

The product is not reactive under normal conditions.

### 10.2. Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3. Possibility of hazardous reactions

No hazard reactions are expected under normal processing.

### 10.4. Conditions to avoid

Avoid extreme temperatures.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No data available.

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

**Acute toxicity:** Data Not Available

**Skin corrosion/irritation:** Data Not Available

**Eye damage/irritation:** Data Not Available

**Respiratory or skin sensitization:** Data Not Available

CMR – Carcinogenicity, Mutagenicity and Reproductive toxicity: Quartz ( CAS 14808 - 60 - 7 ) Carcinogenic to humans

**STOT – single and repeated exposure:** Data Not Available

**Aspiration hazard:** Data Not Available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Aquatic toxicity:

The product is not expected to be toxic to fish (according to EU method C.1): LC50 > 128 mg/L

The product is not expected to be toxic to aquatic invertebrates (according to EU method C.2): LC50 > 116 mg/L

The product is not expected to be toxic to aquatic algae (according to EU method C.3): LC50: 100 mg/L NOEC: 77 mg/L The product is not expected to be toxic to aquatic microorganisms (according to EU method C.11): LC50: 1000 mg/L

**Sediment toxicity:** No data available.

Terrestrial toxicity:

The product is not expected to be toxic to birds (according to EU method B.1 tris): NOAEL: 500 mg/kg bw/day

### 12.2. Persistence and degradability

Data Not Available.

### 12.3. Bioaccumulative potential Bioconcentration factor (BCF)

Data Not Available

### 12.4. Mobility in soil Mobility in general

Data Not Available.

### 12.5. Results of PBT and vPvB Assessment

Data Not Available

### 12.6. Other adverse effects

Data Not Available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Dispose of waste materials at a licensed site.

Rinse with water the used containers three times and empty the water into the application tank.

Do not burn containers, even after use. Disable the used packaging and dispose of content and/or empty containers in accordance with local, regional, national, and/or international regulations.

## SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport within the transport regulations.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the product

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### EU Regulations

Exempt from Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Not regulated as dangerous goods.

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### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this product.

### SECTION 16: OTHER INFORMATION

#### Legend to abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. DL50: Lethal dose 50%

DNEL: Derived No Effect Level

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.2 IMDG: International Maritime Dangerous Goods.

LC50: Lethal concentration 50% NOEC: No observed effect concentration

PBT: Persistent, Bioaccumulative and Toxic. PNEC: Predicted No Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STOT: Specific Target Organ Toxicity

vPvB: Very Persistent and very Bioaccumulative. NOAELoral: 250 mg/kg bw/day NOAELoral: 500 mg/kg bw/day

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

ESIS: European Chemical Substances Information System. ECHA: European Chemicals Agency <http://echa.europa.eu/>

Classification and Labelling Inventory Database [http://echa.europa.eu/web/guest/information-on-chemicals/clinventory- Database](http://echa.europa.eu/web/guest/information-on-chemicals/clinventory-Database)

Institute for Health and Consumer Protection (European Commission): <http://ihcp.jrc.ec.europa.eu/> Instituto Nacional de Seguridad e

Higiene en el trabajo <http://www.insht.es>

Riskquim <http://riskquim.insht.es:86/riskquim/clp/>

### Disclaimer

This SDS summarises our best knowledge of the health and safety hazards information about the production and how to handle the product. The information contained in this SDS, as of the issue date, is believed to be true and correct. However, accuracy or completeness of this information, and any recommendations and suggestions, are made without warranty and guarantee. Since the conditions of use are beyond the control of Soil Biology Ltd, it is the responsibility of the distributor and user to determine the conditions of safe use of this product.

Every effort has been made to ensure this product contains no sharp fragments or regenerative plant parts. However, Soil Biology Ltd cannot guarantee they will never be present.