The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

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

1.1. Product identifier

Trade name	SB Organic DE Si
Product code	ORG-DES-18.5L
REACH registration No.	Not applicable

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

Identified use(s)	Agricultural fertiliser
Uses advised against	None known

1.3. Details of the supplier of the safety data sheet

Supplier name:	Soil Biology Ltd
Supplier address:	Unit 30 Branbridges Industrial Estate East Peckham TN12 5HF United Kingdom
Supplier telephone:	+44 01892 883759
Email:	info@soilbiology.uk

1.4. Emergency telephone number

National Response	NHS Direct
Emergency phone No.	+44 111 (24-hour line, English main language, interpreters available)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Regulation (EC) No.1272/2008 (CLP)	Specific target organ toxicity after repeated exposure (Category 2)

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

CLP Hazard Pictograms:

Signal Word(s):	Warning
Hazard Statements:	
H373	May cause damage to organs
Precautionary Statements:	
P260	Do not breathe dust/ mist/ vapours/ spray
P280	Wear eye protection

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P314	Get medical advice/ attention if you feel unwell
P337 + P313	If eye irritation persists: get medical advice/ attention
P501	Dispose of contents/ container to a waste collection point, empty container may be disposed of to trade or municipal waste

2.3. Other hazards Not tested for PBT, Not tested for vPvB

2.4. Additional Information Full text for Hazard and Precautionary Statements in Section 16.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC Classification No 1272/2008

Ingredient(s)	%w/w	CAS No	EC No	REACH Registration No	Hazard statements	M-Factor, SCL, ATE
Diatomaceous earth, calcined (Kieselguhr)	>10 - <20	91053-39-3	293-303-4	-	H373	N/A

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1.1. First aid instructions.

If inhaled: Move person into fresh air, if not breathing give artificial respiration, consult a physician immediately if breathing is difficult.

If on skin (or hair): Wash affected skin with plenty of water, remove any contaminated clothing, avoid rubbing or abrading damaged skin, seek medical advice if any pain or irritation persists.

If in eyes: Do not rub the eyes. Immediately flush the eyes with plenty of water for several minutes. Remove any contact lenses and open eyes wide apart to wash. Seek medical advice if any pain persists.

If swallowed: Rinse out the mouth and give the victim water to drink. Do not induce vomiting, but if vomiting occurs spontaneously keep the airways clear. Seek medical attention if feeling unwell or are concerned.

Other first aid advice: Wash any affected areas with water

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

If inhaled: Inhalation of mists or vapours is expected to cause coughing and some respiratory discomfort. A sore throat may develop.

If on skin (or hair): Skin exposure may cause itching, redness and soreness if left unwashed for an extended amount of time.

If in eyes: Exposure to the eyes may result in pain, watering and irritation. Abrasive damage may occur to the eyes where rubbed.

If swallowed: There may be some nausea, vomiting, diarrhoea and stomach pains.

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

Medical treatment: Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water jet, water spray, foam, powder, carbon dioxide

Unsuitable extinguishing media: None known

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: None known

Other special hazards during fire: None known

5.3. Advice for firefighters

Protective actions during firefighting: No special instructions

Special protective equipment for firefighters: Use self-contained breathing apparatus

Other advice: None known

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel PPE See section 8.2

Emergency responders PPE See section 8.2

Controlling risks from accidental release: Use sand or other coarse absorbent to minimise slip hazards and absorb spilt material

Emergency procedures: Cordon the area around a spill to prevent access, where the product may represent a slip or react with other nearby materials

6.2. Environmental precautions

Keep accidental releases away from: Do not let the product enter drains, surface water, soil and open ground

6.3. Methods and material for containment and cleaning up

Containing a spill: Collect spillage or absorb with a suitable absorbent material.

Cleaning up a spill Use a squeegee and absorbent material to clean a spill as much as possible, the area should then be washed with water to remove remaining residues

Other information on spill handling: Product will represent a slip hazard where spilt

6.4. Reference to other sections

References to other sections: See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling recommendations: Avoid prolonged contact with skin and any contact with eyes. Apply good hygiene practices.

Handling incompatibles: Do not handle with strong oxidisers.

Reducing environmental risk: Ensure adequate spill kits and drain protection in the vicinity of where this product is stored and used.

Occupational hygiene advice: Wash hands after use and before eating and drinking. Remove contaminated clothing and PPE before leaving the entering eating spaces.

7.2. Conditions for safe storage, including any incompatibilities

Safe storage: managing risks during storage:

Explosive atmospheres formed during storage: Not applicable

Corrosive conditions during storage: Not expected to cause damage to plastic or metal containers

Flammability hazards during storage: Not applicable

Incompatible substances or mixtures: May react with strong oxidisers

Evaporative conditions: Evaporation may concentrate components and eventually create a dust hazard

Potential ignition sources, including electrical equipment: Not applicable

Safe storage: controlling effects of ambient conditions:

Weather conditions: Keep out of rain

Ambient pressure: Not applicable

Temperature: No specific temperature requirements

Sunlight: Store out of direct sunlight

Humidity: Not applicable

Vibration: Not applicable

Safe storage: maintaining the integrity of the product:

Stabilisers: Stabilisers are not used in this product

Antioxidants: Antioxidants are not used in this product

Safe storage: other advice:

Ventilation requirements for storage: Not applicable

Specific designs for storage rooms or vessels: Not applicable

Quantity limits under storage conditions: Not applicable

Suitable packaging for the substance: Compatible with plastic and protected metal containers

7.3. Specific end use(s)

Uses: Agricultural fertiliser

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure limits: Not applicable

8.1.2 Biological Limit Values: Not applicable

8.1.3 Current recommended monitoring procedures: Not applicable

8.1.4 Air contaminants formed when using the product as intended: Not applicable

8.1.5. PNECs and DNELs Not applicable

8.2. Exposure controls

8.2.1. Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the day. Ensure adequate ventilation.

8.2.2. Personal Protection Equipment

Eye protection: Use splash protective glasses that have been tested and approved under EN166 standard.

Face protection: Should not be necessary for normal use.

Hand protection: When handling for extended periods nitrile gloves to EN374 standards should be worn.

Other skin protection Protective coveralls are not expected for normal use. Do not wear open footwear.

Respiratory protection Respiratory protective equipment is not expected for normal use.

Thermal hazards Not applicable.

8.2.3. Environmental exposure controls Do not release any product effluent to drains or surface water

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Opaque, beige, viscous liquid

Physical state: Liquid

Colour:	Opaque, beige to brown
Odour:	Slight surfactant odour
Odour threshold:	Data not available
pH:	7.5 – 9.0
Melting point:	Data not available
Freezing point:	Data not available
Initial boiling point:	100ºC for water component
Boiling range:	Data not available
Flash point:	>100ºC
Flash point method:	Data not available
Evaporation rate:	Data not available
Flammability (if solid or gas):	Not applicable
Upper and lower flammability or explosive limits:	Data not available
Vapour pressure:	Data not available
Vapour density:	Data not available
Density:	1.03 – 1.08 g/ml at 20.0ºC
Solubility(ies)	Completely dispersible in water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	4,000 – 15,000 cPs at 20ºC (measured on Brookfield RVT at 10 rpm) Exact viscosity will vary with formulation variant
Explosive properties	Data not available, not expected to be explosive
Oxidising properties	Data not available, not expected to be oxidising
9.2. Other information	No other information available

SECTION 10: Stability and reactivity

10.1. Reactivity	May react with strong oxidisers
10.2. Chemical stability	Stable under normal storage conditions
10.3. Possibility of hazardous reactions	Product not known to react and/or polymerise in a hazardous way
10.4. Conditions to avoid	Do not allow product to evaporate to dryness

10.5. Incompatible materials Avoid mixing with strong oxidising agents

10.6. Hazardous decomposition products Data not available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	LD50: >2,000 mg/kg BW, based on classification Mixture ATE calculated to be >5,000 mg/kg BW
Skin corrosion/irritation	Not classified as irritating to skin
Serious eye damage/irritation	Not classified as irritating to the eyes
Respiratory or skin sensitisation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
STOT-repeated exposure;	May cause damage to organs, route not specified, though anticipated to be related to inhalation of dust content

11.2. Other information No other information

SECTION 12: Ecological information

12.1. Toxicity

No aquatic toxicity testing has been undertaken for this product. Quoted values are aggregated from constituent data.

Species	Test	Value
Trout	LC50 96H	>1,000 mg/L
Daphnia	EC50 48H	>1,000 mg/L
Algae	EC50 72H	>100 mg/L

12.2. Persistence and degradability Inorganic materials do not chemically degrade, the ions will persist and react in the environment. Organic components are expected to be readily biodegradable

12.3. Bioaccumulative potential Data not available

12.4. Mobility in soil Data not available

12.5. Results of PBT and vPvB assessment Data not available

12.6. Other adverse effects

Environmental fate	Not applicable
Photochemical ozone creation potential	Not applicable
Ozone depletion potential	Not applicable

Endocrine disrupting potential	Not applicable
Global warming potential	Not applicable

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This material, if discarded as produced, is not classified as a hazardous waste. Waste treatment containers to be used for product include IBCs or drums. Recycle the product where possible. If heavily soiled or disposal judged as necessary dispose to landfill in accordance with the Directive on waste 2008/98/EC

No specific waste treatment containers to be used for contaminated packaging, packaging should be recycled where possible. Waste treatment method for contaminated packaging should include a rinse with water. Dilute washings should be reused where possible, possibly as a low-grade fertiliser by a farmer or appropriate competent individual

SECTION 14: Transport information

14.1. UN number	Not applicable
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code Not applicable

SECTION 15: Regulatory information

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

Ozone depleting substance (EC No 2037/2000):	Not applicable
Persistent organic pollutants (EC No 850/2004)	Not applicable
Export and import of dangerous chemicals (EC No 689/2008)	Not applicable
COMAH/ Seveso II categories or named substance	Not applicable
REACH Authorisations and/or Restrictions	Not applicable
Any other relevant Safety, health and environmental regulations:	Not applicable

15.2. Chemical safety assessment — A chemical safety assessment has not been carried out for this product

SECTION 16: Other information

a) Changes made to SDS:

SDS compiled to amended regulation. New formulation applies.
Section 2; New precautionary statements applied.
Section 4; Slight amendments to first aid response.
Section 9; Physical properties amended.
Section 11; Mixture ATE included.

b) Key (or legend)

ATE	Acute Toxicity Estimate
BW	Body Weight
LD50	Lethal Dosage affecting 50% of sample population
LC50	Lethal Concentration affecting 50% of sample population
EC50	Effective Concentration affecting 50% of sample population

c) Literature references

Data gathered for raw materials from European Chemicals Agency:
http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
Last accessed (11/03/2021)
Physical properties reported from laboratory testing by manufacturer

d) Details of relevant hazard information

H373	May cause damage to organs
P260	Do not breathe dust/ mist/ vapours/ spray
P280	Wear eye protection
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P314	Get medical advice/ attention if you feel unwell
P337 + P313	If eye irritation persists: get medical advice/ attention
P501	Dispose of contents/ container to a waste collection point, empty container may be disposed of to trade or municipal waste

e) Appropriate training for workers

Training for spillage and chemical handling is recommended

f) Classification method:

CLP classification