

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Creation date: 28/11/2024
Revision: 0

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1.1 Product identifier:	
Product name	LIGNASE
Product number	LIGNASE001
Brand	SW Agronomy
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Identified uses	Turfgrass surfaces
Uses advised against	Other than those recommended
1.3 Details of the supplier of the Safety Data Sheet	
Company	Andrew Turnbull T/A South West Agronomy
Address	Unit 6 Tavy Business Centre, Pitts Cleave Industrial Estate
	Tavistock Devon PL19 0NU United Kingdom
Telephone	+44 (0)1822 369005
Email	enquiries@swagronomy.com
1.4 Emergency telephone r	number
Emergency telephone	+44 (0)7900 692052

SECTION 2: Hazard identification		
2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567		
2.1.1 Classification	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.	
2.2 Label elements	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.	
2.3 Other hazards	The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No.1907/2006 (REACH) as amended.	

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization Mixture

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	Water	<65		
	Enzyme complex	<25		
	Surfactants	<10		

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show

information from this safety data sheet.	
Inhalation	After inhalation: fresh air.
Eye contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
Skin contact	Soap, soap solution or shampoo should be used if there is no skin injury. Remove contaminated clothes.
Ingestion	Rinse out the mouth with clean water. Call medical rescue service.

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

No known acute or delayed effects from exposure to the product

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2. Special hazards arising from the substance or mixture

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For exposure control and individual protection measures, see sections 7 & 8.

6.2. Environmental precautions

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3. Methods and material for containment and cleaning up

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced

6.4 Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling evision date:04/11/2022
Print date:
11/11/2022
Take action to prevent static discharges. Do not inhale dust. 2.0.0 (1.0.0) Version (Revision):

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Keep cool. Recommended sto storage (and the storage of t

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye / face protection

EN 166(EU). Safety glasses

Hand protection

Hand protection

Skin protection

Other protection: protective workwear.

Hand protection



Tested protective gloves must be worn EN ISO 374. The quality of the protective gloves resistant to chemicals must be chosen as a function and quantity of hazardous substances.

156 °C

Body protection Notes precial and assurance assurance cessary.

Respiratory protection Respirator
No special measures are necessary.
Thermal hazards No special measures are necessary.

Environmental exposure controls Necessar mation available.

No information available.

SECTION 9: Physical and chemical properties

9.1 Physical & chemical properties

Physical state Liquid Colour Yellowish

Melting point/freezing point: (1013 hPa)
Initial boiling point and boiling Odour

5,3-7,0 рΗ

Melting/freezing point No data available **Boiling point** No data available Flash point No data available **Evaporation rate** No data available Flammability No data available

(EN)

Upper explosive limit No data available Lower explosive limit No data available Vapour pressure No data available Vapour density No data available Specific gravity No data available Soluble in water Solubility Partition n-octonol/water No data available No data available Autoignition temperature Thermal decomposition No data available Viscosity No data available Oxidizing properties No data available Density 1,03-1,08 g/cm³

SECTION 10: Stability and reactivity		
10.1 Reactivity	This product does not present hazards by their reactivity	
10.2 Chemical stability	Stable under normal conditions (room temperature)	
10.3 Possibility of hazardous	This product does not present possibility of hazardous reactions	
reactions		
10.4 Conditions to avoid	The product is stable and no degradation occurs under normal use. Protect against	
	flames, sparks, overheating and against frost.	
10.5 Incompatible materials	Protect against strong acids, bases and oxidizing agents. Protect against strong acids,	
	bases and oxidizing agents, disinfectants, biocides, chemical pesticides.	
10.6 Hazardous	In the event of fire see Section 5	
decomposition products		

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity No data is available

Skin corrosion/irritation May cause irritation to skin. May cause irritation to eyes.

Serious eye No data is available

damage/irritation

May cause sensitisation by inhalation and skin contact. Respiratory or skin

sensitisation

Germ cell mutagenicity No data is available Carcinogenicity No data is available Reproductive toxicity No data is available

Specific target organ toxicity

- single exposure No data is available

Specific target organ toxicity

repeated exposure
 Aspiration hazard
 No data is available
 No data is available

11.2 Additional information

Prolonged contact with eyes, skin and respiratory tract may cause irritation. Product consists of microorganisms specially selected from the natural environment that are not pathogenic to humans, animals or plants. Open wounds during use are recommended to cover.

SECTION 12: Ecological information	
12.1 Toxicity	May cause long lasting harmful effects to aquatic life.
12.2 Persistence and degradability The mixture is biodegradable.	
12.3 Bio accumulative potential	No data is available
12.4 Mobility in soil	No data is available
12.5 Results of PBT and vPvB Assessment	
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
12.6 Endocrine disrupting properties No data is available	
12.6 Other adverse effects	No data is available

SECTION 13: Disposal considerations

13.1 Waste treatment methods Proceed in accordance with valid regulations on waste disposal.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information	
14.1 UN Number	Not subject to transport regulations
14.2 UN proper shipping name	Not relevant
14.3 Transport hazard class(es)	Not relevant
14.4 Packing group	Not relevant
14.5 Environmental hazards	Not relevant
14.6 Special precautions	Reference in Sections 4 to 8
14.7 Transport in bulk according to Annex II of Marpol and the IBC code	
	Not relevant

SECTION 15: Regulatory information

15.1 Safety legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2 Chemical safety assessment

No information available

SECTION 16: Other information

16.1 Indication of changes None

16.2 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road ASTM: ASTM International, originally known as American Society for Testing and Materials (ASTM)

EINECS: European Inventory of Existing Commercial Chemical Substances

EC50: Effective Concentration 50 (Maximum Effective Concentration for 0% of Individuals)

LC50: Lethal Concentration 50 (Lethal Concentration for 50% of Individuals)

IC50: Inhibitor Concentration 50 (Inhibitory Concentration for 50% of Individuals)

NOEL: No Observed Effect Level (Maximum dose without effect)

DNEL: Derived No Effect Level (Derived no-effect dose)

DMEL: Derived Minimum Effect Level (Derived dose of minimal effect)

CLP: Classification, Labelling and Packaging

CSR: Chemical Safety Report

LD50: Lethal Dose 50 (Lethal Dose for 50% of Individuals)

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

Codice IMDG: International Maritime Dangerous Goods code

PBT: Persistent, bioaccumulative and toxic

RID: Regulations concerning the international rail transport of Dangerous Goods

STEL: Short term exposure limit TLV: Threshold limit value TWA: Time Weighted Average EU: European Union

vPvB: Very persistent very bioaccumulative

N.D.: Unavailable N.A.: Not applicable

VwVwS.: Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard

Classes

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. South West Agronomy and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.