

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

Lightmix

Product code

[v.1.0], A30010, A30485, A33521

<https://my.chemius.net/p/wtLdEb/en/pd/en>

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

Relevant identified uses

Growing medium.

Uses advised against

Do not use for purposes other than those prescribed.

1.3 Details of the supplier of the safety data sheet

Supplier

Bertels B.V.

Ommelpad 2

6035 PC Ospel, The Netherlands

31 (0)495 63 15 59

info@bertelsholland.com

1.4 Emergency Telephone Number

Emergency

111

Supplier

31 (0)495 63 15 59

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

According to the regulation, the chemical is not classified as hazardous.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Not subject to labelling according to Regulation (EC) 1272/2008.

2.3 Other hazards

PBT/vPvB

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting propertiesThe mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.**Additional information**

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances
For mixtures see 3.2.
- 3.2 Mixtures
The product does not contain dangerous substances or ingredients, which would need to be declared on the safety data sheet.

SECTION 4: FIRST AID MEASURES

- 4.1 Description of first aid measures
General notes
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). No action shall be taken involving any personal risk or without suitable training.
Following inhalation
Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.
Following skin contact
Special measures for first help are not needed. If symptoms develop and persist, seek medical attention.
Following eye contact
Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.
Following ingestion
Rinse mouth thoroughly with water. In case of doubt or if feeling unwell seek medical help.
- 4.2 Most important symptoms and effects, both acute and delayed
Following inhalation
Coughing, sneezing, nasal discharge, labored breathing.
Following skin contact
Contact with skin may cause irritation (redness, itching).
Following eye contact
Contact with eyes can cause irritation (redness, tearing, pain).
Following ingestion
May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.
- 4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media
Suitable extinguishing media
Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.
Unsuitable extinguishing media
Full water jet.
- 5.2 Special hazards arising from the substance or mixture
Hazardous combustion products
In case of fire the following can develop: organic decomposition products
- 5.3 Advice for firefighters
Protective actions
In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters
Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information
No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Protective equipment
No information.
Precautionary measures
Ensure adequate ventilation.
Emergency procedures
No action shall be taken involving any personal risk or without suitable training. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
For emergency responders
Use personal protective equipment.
- 6.2 Environmental precautions
Product is not classified as dangerous for environment.
- 6.3 Methods and material for containment and cleaning up

For containment
Prevent spillage - close holes on damaged container.
For cleaning up
Prevent formation of dust.
Other information
No information.
- 6.4 Reference to other sections
See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling

Protective measures
Measures to prevent fire
Ensure adequate ventilation.
Measures to prevent aerosol and dust generation
Prevent dust formation.
Measures to protect the environment
No special measures.
Other measures
No information.
Advice on general occupational hygiene
Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes.
- 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

Packaging materials

No information.

Requirements for storage rooms and vessels

Use appropriate container to avoid environmental contamination.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

See identified uses in Section 1.2.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe dust.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

No requirements under normal use conditions. If there is a risk of eye contact use safety glasses.

Hand protection

No requirements under normal use conditions. In case of prolonged exposure, wear protective gloves (BS EN ISO 374).

Appropriate materials

Skin protection

No requirements under normal use conditions. With excessive exposure wear protective working clothing (overalls and boots).

Respiratory protection

Not needed under normal use and adequate ventilation.

Thermal hazards

None under normal use conditions.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

The product is not classified as dangerous for the environment.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

No information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	solid
Shape	fibres
Colour	brown
Odour	earthy
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	5.7 — 6.7 at 20 °C (1:1.5)
Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Density	0.318 — 0.388 kg/L
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.
Other safety characteristics
No information.

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity

The product is not reactive under normal conditions of use, storage and transport.
- 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.
- 10.3 Possibility of hazardous reactions

There are no known hazardous reactions.
- 10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.
- 10.5 Incompatible materials

No information.
- 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

No information.

Additional information

The product is not classified as acutely toxic.
- (b) Skin corrosion/irritation**

No information.

Additional information

The product is not classified as irritating to skin and eyes.
- (c) Serious eye damage/irritation**

No information.
- (d) Respiratory or skin sensitisation**

No information.

Additional information

The product is not classified as sensitising.
- (e) (Germ cell) mutagenicity**

No information.
- (f) Carcinogenicity**

No information.
- (g) Reproductive toxicity**

No information.
- Summary of evaluation of the CMR properties**

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.
- (h) STOT-single exposure**

No information. Additional information STOT SE (single exposure): Not classified. (i) STOT-repeated exposure No information. Additional information STOT RE (repeated exposure): Not classified. (j) Aspiration hazard No information. Symptoms related to the physical, chemical and toxicological characteristics No information. Interactive effects No information.
11.2 Information on other hazards Endocrine disrupting properties For product The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %. Other information For product Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Acute (short-term) toxicity No information. Chronic (long-term) toxicity No information.
12.2 Persistence and degradability Abiotic degradation, physical- and photo-chemical elimination No information. Biodegradation No information. Additional information Readily biodegradable.
12.3 Bioaccumulative potential Partition coefficient n-octanol/water (log value) No information. Bioconcentration factor (BCF) No information. Additional information No bioaccumulation expected.
12.4 Mobility in soil Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Product is not classified as dangerous for environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Dispose the product to an authorised collector/remover of waste/company performing waste recovery.

Waste codes / waste designations according to LoW

17 05 04 - soil and stones other than those mentioned in 170503

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

15 01 02 - plastic packaging

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

Do not discharge into drains.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

ADR/RID	IMDG	IATA	ADN
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents
No information.

Special instructions
No information.

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Indication of changes
8.2 Exposure controls 9.1 Information on basic physical and chemical properties

Key literature references and sources for data
No information.

Abbreviations and acronyms
ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level
 DPD - Dangerous Preparations Directive 1999/45/EC
 DSD - Dangerous Substances Directive 67/548/EEC
 DU - Downstream User
 EC - European Community
 ECHA - European Chemicals Agency
 EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
 EEC - European Economic Community
 EINECS - European Inventory of Existing Commercial Substances
 ELINCS - European List of notified Chemical Substances
 EN - European Standard
 EQS - Environmental Quality Standard
 EU - European Union
 Euphrac - European Phrase Catalogue
 EWC - European Waste Catalogue (replaced by LoW – see below)
 GES - Generic Exposure Scenario
 GHS - Globally Harmonized System
 IATA - International Air Transport Association
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
 IMDG - International Maritime Dangerous Goods
 IMSBC - International Maritime Solid Bulk Cargoes
 IT - Information Technology
 IUCLID - International Uniform Chemical Information Database
 IUPAC - International Union for Pure Applied Chemistry
 JRC - Joint Research Centre
 Kow - octanol-water partition coefficient
 LC50 - Lethal Concentration to 50 % of a test population
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
 LE - Legal Entity
 LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
 LR - Lead Registrant
 M/I - Manufacturer / Importer
 MS - Member States
 MSDS - Material Safety Data Sheet
 OC - Operational Conditions
 OECD - Organization for Economic Co-operation and Development
 OEL - Occupational Exposure Limit
 OJ - Official Journal
 OR - Only Representative
 OSHA - European Agency for Safety and Health at work
 PBT - Persistent, Bioaccumulative and Toxic substance
 PEC - Predicted Effect Concentration
 PNEC(s) - Predicted No Effect Concentration(s)
 PPE - Personal Protection Equipment
 (Q)SAR - Qualitative Structure Activity Relationship
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
 RIP - REACH Implementation Project
 RMM - Risk Management Measure
 SCBA - Self-Contained Breathing Apparatus
 SDS - Safety data sheet
 SIEF - Substance Information Exchange Forum
 SME - Small and Medium sized Enterprises
 STOT - Specific Target Organ Toxicity
 (STOT) RE - Repeated Exposure
 (STOT) SE - Single Exposure
 SVHC - Substances of Very High Concern
 UN - United Nations
 vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

No information.

Further information / Responsible person

Classification of the mixture is based on the concentration limits according to regulation (EC) no. 1272/2008.