



Safety Data Sheet (SDS) Bioblend LT Standard Grades

SDS Compliant with Regulation
(EC) No 1907/2006 – N° 453/2010

Version 2.0
May 3rd, 2019

Section 1 Product and company identification

1.1 Product identifier

Trade Name	Bioblend
Product Code	all LT Standard Grades
Pure Substance / Mixture	Mixture

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

Identified Use	Industrial use
Manufacturing Process	Manufacturing of semi-finished products or parts by injection moulding

1.3 Details of the supplier of the safety data sheet

Registered Company Name	nature2need Co., Ltd. 浙江竹州新材料有限公司
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Telephone	+86 570 4577 - 116
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Website	http://nature2need.com

1.4 Emergency telephone number

Emergency Telephone	+86 570 4577 - 116
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Section 2 Hazards information

2.1 Classification of substance or mixture

European Regulation (EC) N° 1272/2008 (CLP)	This product is not classified hazardous according to EU-GHS criteria according to European Regulation (EC) N° 1272/2008 (CLP) and its amendments.
European Directives 67/548/EEC or 1999/45/EC	This product is not classified hazardous according to European Directives 67/548/EEC or 1999/45/EC and its amendments.

2.2 Label elements

European Regulation (EC) N° 1272/2008 (CLP)	This product does not require a hazard warning label in accordance with EU-GHS criteria according to European Regulation (EC) N° 1272/2008 (CLP) and its amendments.
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2.3 Other hazards

Special advice	Danger of burns in contact with hot material; during manufacturing, avoid contact with skin, wear suitable gloves and eye protection. Hazardous vapours in case of burning.
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Section 3 Composition/Information on ingredients

Chemical nature of the mixture	<ul style="list-style-type: none"> - Polylactic Acid (PLA) - Other bio-polymers in quantities lower than 15% - Natural fiber fillers in quantities lower than 10% - Mineral fillers in quantities lower than 30% - Other organic fillers in quantities lower than 15% - Processing additives in quantities lower than 3 %
Additional information	no harmful ingredients

Section 4 First aid measures	
General Advice	<ul style="list-style-type: none"> - As a general rule, in case of doubt or if symptoms persist, always contact a physician/doctor. - Never induce swallowing in an unconscious person.
4.1 Description of first aid measures	
Exposure by inhalation	Inhalation of vapours due to thermal decomposition or dust: move to fresh air. Oxygen or artificial respiration is needed. If symptoms persist or in case of discomfort or problems, contact a physician/doctor immediately.
Splashes or contact with eyes	Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. Do not rub or scratch affected areas. If there is any redness, pain or visual impairment, consult an ophthalmologist immediately.
Splashes or contact with skin	In case of contact with molten polymer immediately cool the skin with cold water. Do not remove the solidified product; do not rub or scratch affected areas. Medical aid may be required to remove adhering material and treatment of burns immediately.
In the event of swallowing	No effects known. If the quantity is small (no more than one mouthful), rinse the mouth with water and consult a physician/doctor. If the quantity is big, seek medical attention immediately.
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	
	No data available

Section 5 Firefighting measures

5.1 Extinguishing Media

Suitable methods of extinction	Water spray mist/fog or foam
Unsuitable methods of extinction	In event of a fire, avoid using water jet.

5.2 Special hazards arising from the substance or mixture

	<ul style="list-style-type: none"> - A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. - Do not breathe in smoke. - In the event of a fire, the following may be formed: carbon monoxide (CO), carbon dioxide (CO₂)
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5.3 Advice for firefighters

	Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus and complete protective clothing.
Additional information	Accumulation of dust can be inflammable. In case of fire nearby, remove bags.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	<ul style="list-style-type: none"> - Use suitable protective clothing (wear safety gloves and glasses/goggles). - Avoid eye contact and inhalation of dusts. - Do not smoke. - Keep all ignition sources away.
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6.2 Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system. Avoid ingress of material into environment (soil, waterways and groundwater).
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Risk of slipping. Sweep up material and place in container. Avoid dry sweeping. Dispose according to local regulation about residues.
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6.4 Reference to other sections

	No data available
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Section 7 Handling and storage

	Requirements relating to storage premises apply to all facilities where the mixture is handled.
7.1 Precautions for safe handling	
Handling	<ul style="list-style-type: none"> - Avoid contact with molten polymer. - Avoid generation of dust and electrostatic charge. - Provide sufficient electrical earthing of equipment all equipment. - Provide appropriate exhaust ventilation at machinery and at all places. - Always wash hands after handling.
Prohibited equipment and procedures	<ul style="list-style-type: none"> - No smoking, eating or drinking in areas where the mixture is used. - Prevent access by unauthorised personnel.
7.2 Conditions for safe storage, including any incompatibilities	
Storage	<ul style="list-style-type: none"> - Keep tightly closed in a dry and cool, well ventilated place. - Protect against moisture and UV radiation. - Keep away from heat and sources of ignition. - Keep tightly closed as rats, mouse and similar consider Bioblend LT grades as eatables.
Packaging	Always keep in packaging made of an identical material to the original.
7.3 Specific end use(s)	
	No data available

Section 8 Exposure controls/Personal protection

8.1 Occupational exposure limits

Technical safety measures	With suitable ventilation, occupational exposure limits assumedly will not be reached. Avoid electrostatic charge by use of grounding cables.
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8.1 Exposure controls

Personal protection measures, such as personal protective equipment	<ul style="list-style-type: none"> - Use personal protective equipment that is clean and has been properly maintained. - Store personal protective equipment in a clean place, away from the work area. - Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.
Eye/face protection	<ul style="list-style-type: none"> - Avoid contact with eyes. - Use eye protectors designed to protect against liquid splashes. - Before handling, wear safety goggles with protective sides accordance with standard EN166. - In the event of high danger, protect the face with a face shield. - Prescription glasses are not considered as protection. - Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours and splashes. - Provide eyewash stations in facilities where the product is handled constantly.
Hand protection	<ul style="list-style-type: none"> - Protective creams may be used for exposed skin. - Use suitable heat protection gloves during use. - Gloves must be selected according to the application and duration of use at the workstation.
Body protection	<ul style="list-style-type: none"> - Avoid skin contact. - Wear suitable protective clothing. - Work clothing worn by personnel shall be laundered regularly.
Respiratory protection	<ul style="list-style-type: none"> - In case of dust formation, wear mask with particle filters.
Hygiene measures	<ul style="list-style-type: none"> - No eating, drinking or smoking at the workplace. - Wash hands before breaks.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
PH of the substance	not relevant
Flash point interval	not relevant
Vapor pressure	not relevant
Density range	1.2 - 1.4 g/cm ³

9.2 Other information

Appearance	Pellets, insoluble in water, white in color
Odour	None
Melting point range	170 - 185°C
Auto ignition temperature	> 350°C, estimated
VOC content (%)	negligible
Explosive limits	not determined

Section 10 Stability and reactivity

10.1 Reactivity

	No data available
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10.2 Chemical stability

	Stable under the recommended handling and storage conditions
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10.3 Possibility of hazardous reaction

	No data available
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10.4 Conditions to avoid

Avoid	Humidity, heat, extended exposure to UV, sources of ignition nearby
Protect	Protect from moisture.

10.5 Incompatible materials

	Strong oxidizing agents
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10.6 Hazardous decomposition products

Thermal composition may release	<ul style="list-style-type: none"> - carbon monoxide (CO) - carbon dioxide (CO₂)
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Section 11 Toxicological information

11.1 Information on toxicological effects	
Primary irritation	Product does not generally irritate.
Local irritation	Dust can cause irritation of eyes, respiratory organs and skin. After ingestion stomach pain or nausea are possible.
Additional information	Based on our state of knowledge and experience no injurious health effects are expected if product is properly handled for the designated use.

Section 12 Ecological information

General Ecotoxicity Effects	No negative ecological effects known at the presence state of knowledge. The product must not be allowed to run into drains or waterways.
12.1 Toxicity Mixtures	
	As biopolymer, quite probably not hazardous to aquatic organisms.
12.2 Persistence and degradability	
	100% compostable
12.3 Bioaccumulative potential	
	Due to its consistency and insolubility in water biological accumulation is not expected.
12.4 Mobility in soil	
	No data available
12.5 Results of PBT and vPvB assessment	
	No data available
12.6 Other adverse effects	
	No data available

Section 13 Disposal consideration

Directive 2008/98/EC	Proper waste management of the mixture and/or its container/bags must be determined in accordance with Directive 2008/98/EC.
13.1 Waste treatment measures	
Waste	Do not pour into drains or waterways.
	Where possible recycling is preferred to disposal or incineration.
	Waste management is carried out without endangering human health, without harming the environment and, in particular, without risk to water, air, soil, plants or animals.
Packaging	Packaging material has to be emptied completely and disposed in accordance with regulations. Packaging can be recycled if not contaminated.

Section 14 Transport information

Transport regulation	Not classified as hazardous under transport regulations ADR, ADNR, RID, ICAO/IATA, IMDG/GGVSee, IMDG/IM, DOT, TDG, MEX.
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Section 15 Regulatory information

EU regulations	This product does not require a hazard warning label in accordance with EC Directives.
Water exposure class (Germany)	'nwg', no risk of water pollution (classification acc. Att. 1 of VwVwS)

Section 16. Other information

This document has been issued to align with REACH Regulation.

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