

Material Safety Data Sheet

according to norm (EG) No. 1907/2006

Trade name : Biomer® biopolyesters
revised am : April 08, 2020 **Version :** 2,0

01. Chemical Product Identification/Composition and Trade names

Trade name

Biomer® biopolyesters

Use of Product / Composition

Plastics processing

Producer/Distributor

Biomer

Street/PO Box

Am Park 2

Country Code/ZIP/City

D-65824 Schwalbach

Contact for technical Information

Urs J. Hänggi (Tel. +49/6196/524-7144)

Telephone / E-Mail

+49/6196/524-7144 / haenggj@biomer.de

Emergency Contact

02. Possible Hazards

Hazards

none

Additional Hazard Information for Humans and Environment

none

03. Chemical Product Identification/Composition

Poly((R)3-hydroxybutyric acid)

$H[-O-CH(CH_3)CH_2COO-]_nOH$

CAS numbe: 080181-31-3, 29435-48-1 and 26063-00-3 / 2109096 mixed with processing aids and 0-40% of plasticizers (citric acid esters and/or aliphatic polvesters)

Hazardous Components

none

Components with mandatory EU-Limits

none

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04. First Aid Measures

General Information

not toxic

Acute Inhalation: not applicable

Acute Skin Contact

Cool burns with molten material with warm water; Consult the doctor
Molten resin sticks on the skin; Wear gloves

Acute Eye Contact not applicable

Acute Ingestion not applicable

Hints for the doctor: no information available

05. Fire Fighting Measures

Extinguishing Media

Water, CO₂, Foam

Inappropriate Fire Extinguishing Media

none

Specific Hazards by the Chemical/Composition, by its burned products or by the emitted gases

Burning products: CO₂, butyrolactone, crotonic acid

Special Protection in Fire Fighting

Self-contained breathing apparatus to protect against potentially toxic and irritating fumes

Additional Information

06. Measures needed by Accidental Release

Personal Protection

none

Protection of the Environment

none

Procedures for Cleaning / Collection

none

Additional Information

Biodegradable

07. Handling and Storage

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Recommendation for safe storage

Store at dry places away from excessive heat; Avoid thermal decomposition; Do not exceed temperatures of over 185°C for more than 3 minutes

Precautions against Fire and Explosion

none

Further recommendations

none

Recommendations for Storage

Store in dry places away from excessive heat.

Requirements of Storage Areas

none

Storage Class VCI : not regulated

Intended Uses

Bioplastic to be used in injection molding and extrusion to produce parts that may be lost in the environment

08. Exposition Limits and Surveillance / Personal Protection

Limits for Exposition at the Workplace and/or biological Limits

Specific Limits in Germany (AGW)

not applicable

Exposition Limits of the EU

not applicable

Surveillance of the Exposition

not applicable

Personal Protection

not applicable

Respiratory Protection

In case of burning only

Hand Protection

Wear gloves when handling molten resin

Eye Protection

not applicable

Protection of the Body

not applicable

Information for Work Hygiene

not applicable

Environmental Protection

not applicable; biodegradable

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09. Physical and chemical Properties

Physical Form

Form: Granules, Pellets
Color : beige
Odor :

Data affecting Security

Explosion: not applicable
Lower Explosion Limit: -
Upper Explosion Limit: -
Vapor Pressure: -
Density : (20°C) ca. 1,3 g/ml ISO 2811-1
Solubility in Water: not applicable
pH-Value not applicable
Boiling-Point/-Range : not applicable
Flammability Pont: not applicable
Ignition Temperature: not applicable

10. Stability and Reactivity

Conditions to avoid

If properly used there are no dangerous reactions

Substances to avoid

Contact with strong oxidants, alkali, acids

Dangerous Decomposition Products

Burning: CO₂, butyrolactone, crotonic acid

11 Toxicological Data

not toxic, not irritant

Toxicological Information

none

Observation during use

none

Data for Composition

no toxic additives

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12. Ecological Data

Ecotoxicity

Fish:
not applicable

Aquatic Invertebrates:
not applicable

Water Plants:
not applicable

Mobility

not applicable

Persistence and Degradation

biodegradable

Bioaccumulation Potential

not applicable

Results of the PBT-Properties

no data available

Other noxic Properties

no data available

13. Disposal Considerations

Product / Compound

Reuse (recycling), Composting, Incineration

Recommendation

dispose like plastics or bioplastics (composting)

Disposition Key according Refuse List (AVV)

020104
200108

Packages

Soiled Packages

not regulated

14. Transport Information

Land ADR/RID

not regulated

Sea IMDG/GGVSea

not regulated

Air ICAO-TI and IATA-DGR

not regulated

15. Regulatory Information

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Safety Analysis

No safety analysis was performed for this product or composition

Label(s) and signs for the product or composition: not regulated

Safety determining Components for Labeling not regulated

EU-Requirements: not regulated

National Requirements: not regulated

Water: not regulated

Air: not regulated

Accidents (12. BimSchV): not regulated

Solvents (31. BImSchV): not regulated

Restrictions: not regulated

16. Other Information

EU-Regulations: not regulated

Restrictions suggested by the Producer
not applicable

Other Suggestions not applicable

Changes since last update
none

Producer of the Safety Data Sheet
Biomer
