

SAFETY DATA SHEET

According to Regulation 2015/830

Biosan P Max

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Revision 4

Supersedes: Revision 3 dated 01/06/2015

Issue Date: 03/03/2020

Section 1. IDENTIFICATION OF THE SUBSTANCE /MIXTURE AND THE COMPANY/ UNDERTAKING

1.1. Product identifier Biosan P Max

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

Anti-microbial deodorising product for waste bins

1.3. Details of the supplier of the safety data sheet

Genesis Biosciences
Unit P1, Capital Business Park
Capital Point, Parkway
Cardiff CF3 2PU
United Kingdom
Tel: +44 (0) 29 2079 1185
info@genesisbiosciences.com

1.4. Emergency telephone number

Telephone +44 (0) 29 2079 1185 (8am-5.30pm GMT Monday to Friday)

Section 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to 1272/2008/EC

Skin Sens.1, H317 May cause an allergic skin reaction

Eye Irrit, 2, H319 Causes serious eye irritation

Flam. Solid 2, H228 Flammable solid

2.2. Label elements

Labelling according to 1272/2008/EC

Hazard Pictograms



GHS-02 GHS-07

Signal word: Warning

Hazard statements

H228 Flammable Solid

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

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Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P280 Wear protective gloves, eye protection and protective clothing

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention

2.3. Other hazards:

The product is packaged in small sachets for individual dosing, so in normal use, significant dust should not be generated, but if it is, provide appropriate exhaust ventilation or wear suitable protective equipment (See Sections 7.1 and 8.1). Although it is unlikely due to the packaging, it may form an explosible dust-air mixture if dispersed.

Prolonged inhalation of respirable dust may cause irritation to the lungs and respiratory system such as coughing and breathlessness.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable, material is a mixture

3.2. Mixtures

Hazardous ingredients declared according to Regulation (EC) No 1272/2008

CAS: 67-63-0 EINECS:200-661-7 REACH: 01-2119457558-25-xxxx	Propan-2-ol	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE3, H336	>10%
CAS:104-55-2 EINECS: 203-213-9 REACH: 01-2119935242-45-xxxx Also an active substance being supported under BPR	Cinnamal	Acute Tox. 4, H312 Skin Irrit. , H315 Skin Sens.1, H317 Eye Irrit. 2, H319	1-10%
CAS: 68647-73-4/85085-48-9 EINECS: REACH: 01-2120743651-57-xxxx	Tea tree oil	Acute Tox. 4, H302 Asp Tox. 1, H304 Skin Irrit, 2, H315 Skin Sens.1, H317 Aquatic Chronic 2, H411	1-10%
CAS:97-53-0 EINECS: 202-589-1 REACH: 01-2119971802-33-xxxx	Eugenol	Skin Sens.1, H317 Eye Irrit. 2, H319	0.1-1%

Substances with workplace exposure limits, not listed above

CAS:112926-00-8 EINECS: 231-545-4 REACH: 01-2119379499-16-xxxx	Silica, amorphous	>40%
CAS:57-55-6 EINECS: 200-338-0 REACH: 01-2119456809-23-xxxx	Propane-1,2-diol	>10%

A full explanation of H-phrases appears in Section 16

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Section 4. FIRST AID MEASURES

4.1. Description of first aid measures

- Eye Contact** Rinse immediately with water for at least 5 minutes holding the eyelids open.
- Skin Contact** Wash off immediately with soap and water. Remove contaminated clothing and wash before reuse.
- Inhalation** Move the exposed person to fresh air.
- Ingestion** Rinse mouth thoroughly.

Seek medical attention if any symptoms persist.

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

Causes eye irritation. May cause an allergic skin reaction

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

No special treatment required

Section 5. FIRE FIGHTING MEASURES

- 5.1. Extinguishing media** Use extinguishing media appropriate to the surrounding fire conditions. Although release of large amounts of product is unlikely given the packaging format (individual dose sachets), avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- 5.2. Special hazards arising from the substance or mixture**
Product is predominantly a non-combustible inorganic material: not expected to create special hazards
- 5.3. Advice for firefighters** Wear full protective clothing and suitable respiratory equipment when necessary

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid raising dust. Ensure adequate ventilation of the working area. If this cannot be provided, wear a respirator as defined in Section 8.2. Wear approved safety glasses or goggles and chemical resistance gloves (PVC, nitrile, neoprene or butyl)

6.2. Environmental precautions

Do not allow significant amounts (>5kg or contents of 1.5 cases of sachets) of product to enter drains, open water courses or surface water. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Small spillages (<20 kg) can be swept up and disposed of with normal refuse. For larger spillages, sweep up and transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water which can be washed to drain (but not to one that leads to an open water course or surface water).

6.4. Reference to other sections

See sections 8 and 13 for additional information

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Section 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Product is packaged in small sachets for individual dosing. Avoid formation of respirable dust. Avoid conditions where a combustible dust air mixture may be generated. Ensure adequate ventilation of the working area if handling large amounts of product. In case of dust production and insufficient ventilation wear suitable respiratory protection equipment: See section 8.2. Wear chemical resistance gloves, approved safety glasses or goggles and avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool dry, well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers

7.3. Specific end use(s)

No exposure scenario currently available

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Ingredient	CAS	EC	Description	ppm	mg/m ³	Reference
Silica, amorphous Inhalable dust	11292600-8	231-545-4	Long term exposure limit (8 hour TWA reference period)	-	6	UK EH40 Oct 2007
Silica, amorphous Respirable dust			Long term exposure limit (8 hour TWA reference period)	-	2.4	
Propan-2-ol	67-63-0	200-661-7	Long term exposure limit (8 hour TWA reference period)	400	999	
			Short term exposure limit (15 minute reference period)	500	1250	
Propane-1,2-diol Total vapour and particulates	57-55-6	200-338-0	Long term exposure limit (8 hour TWA reference period)	150	474	
Propane-1,2-diol Particulates			Long term exposure limit (8 hour TWA reference period)	-	10	

8.2. Exposure controls

Engineering measures

Minimise airborne dust formation. Ensure adequate ventilation of the working area to keep airborne dust levels below the exposure limit

Respiratory protection

Wear suitable half mask respirator with filter P2 (EN143) if dust is generated during use and if exposure limits likely to be exceeded for prolonged periods.

Hand protection

Wear chemical resistance gloves (PVC, nitrile, neoprene or butyl)

Eye protection

Wear approved safety glasses or goggles

Protective equipment

Wash all contaminated clothing before re-use

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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Small white granules
Odour	Strong
Odour threshold	Not determined
pH	6.0-7.0(5% suspension in water)
Melting point/freezing point	Not applicable predominantly an inorganic solid
Initial boiling point and boiling range	Not applicable predominantly an inorganic solid
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Flammable solid Category 2
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	0.63 g/ml (tapped density)
Solubilities	Not soluble in water
Partition coefficient n-octanol/water	Not applicable predominantly an inorganic solid
Autoignition temperature	Not determined
Decomposition temperature	Not applicable predominantly an inorganic solid
Explosive properties	No ingredients with explosive properties
Oxidising properties	No ingredients with oxidising properties
Viscosity	Not applicable
9.2. Other information	None available

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity	No specific hazard
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	Not expected to create special hazards
10.4. Conditions to avoid	Not determined
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

a) Acute toxicity

Estimated oral ATE for mixture is >20,000 mg/kg

Estimated dermal ATE for mixture is >10,000 mg/kg

b) **Skin corrosion/irritation:** Mixture not classified as causing skin Irritation or corrosion.

c) **Serious eye damage/irritation:** Mixture classified as H319 Causes serious eye irritation

d) **Respiratory or skin sensitisation:** Contains ingredients that may cause sensitisation by skin contact, mixture is classified as Skin Sens.1, H317 May cause an allergic skin reaction. Does not contain ingredients classified as a respiratory sensitiser.

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- e) **Germ cell mutagenicity:** Does not contain ingredients that are known germ cell mutagens
- f) **Carcinogenicity:** Does not contain ingredients that are known carcinogens
- g) **Reproductive toxicity:** Does not contain ingredients that are known reproductive toxicants
- h) **STOT single exposure:** The product contains liquid ingredients that are classified as STOT SE 3 H336 (May cause drowsiness or dizziness), but at levels below that at which classification for this hazard is required.
- i) **STOT repeated exposure:** Does not contain ingredients that are known to cause single target organ toxicity with repeated exposure.
- j) **Aspiration hazard:** The product contains a liquid ingredient that is classified as 'Asp Tox. 1, H304, May be fatal if swallowed and enters airways', but at levels below that at which classification for this hazard is required. The liquid raw materials are tightly absorbed onto a granular inorganic carrier. If swallowed, liquid cannot enter airways and the risk of aspiration toxicity of the product is therefore minimal.

Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Mixture not classified as toxic to aquatic life for either acute or chronic effects.

12.2. Persistence and degradability

Biodegradation only applies to organic materials, the carrier in this product is inorganic. Given the classification and degradability information on the organic ingredients and their concentration in the mixture no adverse environmental effects are foreseen.

12.3. Bioaccumulative potential

Given the classification and environmental behaviour information on the ingredients and their concentration in the mixture, product is not expected to bioaccumulate

12.4. Mobility in soil

The inorganic carrier will mix with soil and with the other ingredients being tightly absorbed to the carrier, so no extensive migration to groundwater is expected

12.5. Results of PBT and vPvB assessment

Not anticipated to be PBT or vPvB

12.6. Other adverse effects

None known

Section 13. DISPOSAL CONSIDERATIONS

- 13.1. **Waste treatment methods** Small quantities of product (up to 20 kg on any one occasion) can be disposed of with domestic refuse.

Section 14. TRANSPORT INFORMATION

- 14.1. **UN number** UN 1325
- 14.2. **UN proper shipping name** Flammable Solid, Organic NOS (Contains IPA)
- 14.3. **Transport hazard class(es)** Class 4.1
- 14.4. **Packing group** III
- 14.5. **Environmental hazards** No
- 14.6. **Special precautions for user** Transport Cat 3

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Tunnel restriction (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Section 15. REGULATORY INFORMATION

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

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Section 16. ADDITIONAL INFORMATION

Revision

This SDS has been brought into compliance with Regulation 2015/830. No changes to the classification of ingredients or the preparation, the GHS/CLP symbols and phrases and communication of classification, hazards and have been made. Additional information on the REACH status of ingredients has been added in Section 3.2. Additional statements on explosible dust mixtures have been added to Sections 2.3, 5.1 and 7.1.

Explanation of H-phrases appear in section 3

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H312 Harmful in contact with skin
H315 Causes skin irritation
H336 May cause drowsiness or dizziness
H411 Toxic to aquatic life with long lasting effects

References

Allergens in consumer products: S.W.P. Wijnhoven, J. Ezendam, A.G. Schuur, H. van Loveren and J.G.M. van Engelen. RIVM Report 320025001/2008, Center for Substances and Integrated Risk Assessment www.vwa.nl/txmpub/files/?p_file_id=31183

Annex II Annex II of (EU) No 453/2010 <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:133:0001:0043:en:PDF>

2nd ATP of CLP Regulation 286/2011, Table 3.4.6 <http://eur-lex.europa.eu/legalcontent/EN/TXT/PDF/?uri=OJ:L:2011:083:FULL&from=EN>

European Chemicals Agency (ECHA) Guidance on the compilation of safety data sheets, Version 3.1, November 2015
https://echa.europa.eu/documents/10162/23036412/sds_en.pdf/01c29e23-2cbe-49c0-aca7-72f22e101e20

Method used to classify: Mixture has been classified by reference to information on ingredients

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Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.