

SAFETY DATA SHEET

According to 453/2010 EC Annex I, which replaces 1907/2006 Annex II

Biosan Naturals Sachets

Page 1 of 7
Revision 3
Supersedes: Revision 2 dated 05/11/2013
Issue Date: 01/06/2015

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

- 1.1. Product identifier** Biosan Naturals Sachets
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Sachet packaged 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
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects

- 2.2. Label elements**
Labelling according to 1272/2008/EC

Hazard Pictograms



GHS-07

Signal word: Warning

Hazard statements

H317 May cause an allergic skin reaction
H412 Harmful to aquatic life with long lasting effects

Precautionary Statements

P273 Avoid release to the environment
P391 Collect spillage
P280 Wear protective gloves and protective clothing

Biosan Naturals Sachets

Page 2 of 7
Revision 3
Supersedes: Revision 2 dated 05/11/2013

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

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

P362 + P364 Take off contaminated clothing and wash before re-use

Safety data sheet available on request.

2.3. Other hazards:

The carrier used in this product does not meet the criteria for classification as hazardous as defined in Regulation EC 1272/2008, but inappropriate handling and use of the product may generate airborne respirable quartz dust. The product is packaged in small quantities for its intended use, so in normal use, significant respirable 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).

Prolonged and/or massive inhalation of respirable quartz dust (particles up to 10 microns in size) may cause long term effects. Occupational exposure to quartz dust should be monitored and controlled.

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:14808-60-7 EINECS: 238-878-4	Quartz	STOT RE 2, H373	<10%
CAS:5989-27-5 EINECS: 227-813-5	Limonene	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens.1, H317 Aquatic Acute 1, H400 Aquatic chronic 1, H410 M Factor 1 (Self classified)	1-2%
CAS: 5392-40-5 EINECS: 203-376-6	Citral	Skin Irrit. 2, H315 Skin Sens.1, H317	0.1-1%
CAS: 106-23-0 EINECS:209-578-0	Citronellal	Skin Irrit. 2, H315 Skin Sens.1, H317 Eye irrit. 2, H319 Aquatic Chronic 2, H411	0.1-1%
CAS: 586-62-9 EINECS 209-578-0	Terpinolene	Flam. Liq. 3, H226 Asp Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens.1, H317 Aquatic Chronic 2, H411	0.1-1%
CAS: 8006-64-2, 9005-90-7, 8052-14-0 EINECS: 232-350-7, 232-688-5	Turpentine	Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens.1, H317 Eye irrit. 2, H319 Acute Tox. 4, H332 Aquatic Chronic 2, H411	0.1-1%
CAS: 80-56-8 EINECS 201-291-8	alpha Pinenes	Flam. Liq. 3, H226 Asp Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens.1, H317	0.1-1%
CAS: 106-24-1 EINECS: 203-377-1	Geraniol	Skin Irrit. 2, H315 Skin Sens.1, H317	0.1-1%

Biosan Naturals Sachets

Page 3 of 7
Revision 3
Supersedes: Revision 2 dated 05/11/2013

		Eye Dam.1, H318	
CAS: 105-87-3 EINECS: 203-341-5	Geranyl acetate	Skin Irrit, 2, H315 Skin Sens.1, H317 Aquatic Chronic 3, H412	0.1-1%
CAS: 105-87-3 EINECS: 203-341-5	Nerol	Skin Irrit, 2, H315 Skin Sens.1, H317 Eye irrit. 2, H319	0.1-1%
CAS: 68039-49-6 EINECS:268-264-1	2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Skin Irrit, 2, H315 Skin Sens.1, H317 Eye irrit. 2, H319 Aquatic Chronic 3, H412	0.1-1%
CAS: 491-07-6 EINECS: 207-727-4	Isomenthone	Skin Irrit, 2, H315 Skin Sens.1, H317	0.1-1%

Substances with workplace exposure limits, not listed above

CAS:84-66-2 EINECS: 201-550-6	Diethyl Phthalate	<2%
CAS:128-37-0 EINECS: 204-881-4	Butylated hydroxytoluene	<0.1%

A full explanation of H-phrases appears in Section 16

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Do not rub eye. Rinse immediately with water 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

May cause an sensitization by skin contact

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

No special treatment required

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media Product is predominantly a non combustible inorganic material. Use extinguishing media appropriate to the surrounding fire conditions

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

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

Biosan Naturals Sachets

Page 4 of 7
Revision 3
Supersedes: Revision 2 dated 05/11/2013

6.2. Environmental precautions

Do not allow significant amounts (>2.kg or 2 cases) 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

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Product is packaged in small quantities for intended use. Avoid formation of respirable dust. 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 and avoid contact with 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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Ingredient	CAS	EC	Description	ppm	mg/m ³	Reference
Quartz	14808-60-7	238-878-4	Long term exposure limit (8 hour TWA reference period)	-	0.1	UK EH40 Oct 2007
Diethyl Phthalate	84-66-2	201-550-6	Long term exposure limit (8 hour TWA reference period)	-	5	
			Short term exposure limit (15 minute reference period)	-	10	
Turpentine	8006-64-2	232-350-7	Long term exposure limit (8 hour TWA reference period)	100	566	
			Short term exposure limit (15 minute reference period)	150	850	
Butylated hydroxytoluene	128-37-0	204-881-4	Long term exposure limit (8 hour TWA reference period)	-	10	
			Short term exposure limit (15 minute reference period)	-	-	

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.

Biosan Naturals Sachets

Page 5 of 7

Revision 3

Supersedes: Revision 2 dated 05/11/2013

Hand protection	Wear chemical resistance gloves (PVC, nitrile, neoprene or butyl)
Eye protection	Not required under normal conditions of use
Protective equipment	Wash all contaminated clothing before re-use

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Pale brown granules
Odour	Strong
Odour threshold	Not determined
pH	5.0-6.0 (5% suspension in water)
Melting point/freezing point	Predominantly an inorganic solid with mp/fp>1000°C
Initial boiling point and boiling range	Not applicable predominantly an inorganic solid
Flash point	>60°C
Evaporation rate	No data available.
Flammability (solid, gas)	Not a flammable solid
Upper/lower flammability or explosive limits	Not applicable: see above
Vapour pressure	No data available.
Vapour density	Expected to be >1 (Air=1)
Relative density	Approx. 110 (kg/m ³)
Solubilities	Not soluble in water
Partition coefficient n-octanol/water	Not applicable predominantly an inorganic solid
Autoignition temperature	Predominantly an inorganic solid with mp/fp>1000°C
Decomposition temperature	Predominantly an inorganic solid with mp/fp>1000°C
Viscosity	Not applicable, granular solid
Explosive properties	No ingredients with explosive properties
Oxidising properties	No ingredients with oxidising properties
9.2. Other information	None available

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	Strong oxidising agents, Hydrochloric acid.
10.6. Hazardous decomposition products	None known

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

a) Acute toxicity

Contains minority ingredients that are Acute Toxicity 4, H302. Based on concentration of these in the product, the estimated oral ATE for the mixture is >140,000 mg/kg

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

c) Serious eye damage/irritation: Mixture not classified as causing serious eye damage or irritation.

d) Respiratory or skin sensitisation: Mixture is classified as Skin Sens, 1, H317 May cause an allergic skin reaction. Does not contain ingredients classified as a respiratory sensitiser.

e) Germ cell mutagenicity: Does not contain ingredients that are known germ cell mutagens

Biosan Naturals Sachets

Page 6 of 7
Revision 3

Supersedes: Revision 2 dated 05/11/2013

f) Carcinogenicity: Quartz: IARC 1: Group 1: Carcinogenic to humans if excessive inhalation of respirable particles (up to 10 microns in size) occurs over an extended period.

g) Reproductive toxicity: Does not contain ingredients that are known reproductive toxicants

h) STOT single exposure: Does not contain ingredients that are known to cause single target organ toxicity with single exposure

i) STOT repeated exposure: Contains an ingredient classified as H373: May cause damage to organs through prolonged or repeated exposure if inhaled. Refers to excessive inhalation of respirable particles (up to 10 microns in size) over an extended period.

j) Aspiration hazard: Does not contain ingredients that are known aspiration hazards.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

By calculation from information on ingredients, mixture classified as Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. Not classified for acute effects.

12.2. Persistence and degradability

Inorganic carrier will not biodegrade. Given the classification and degradability information on the 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

Inorganic mineral carrier will mix with soil but all ingredients are insoluble in water, therefore will not migrate to groundwater

12.5. Results of PBT and vPvB assessment

Not anticipated to be PBT or vPvB

12.6. Other adverse effects

None known

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.

14. TRANSPORT INFORMATION

14.1. UN number Not regulated

14.2. UN proper shipping name Not regulated

14.3. Transport hazard class(es) Not regulated

14.4. Packing group Not regulated

14.5. Environmental hazards Not applicable

14.6. Special precautions for user None required

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

Not applicable

Biosan Naturals Sachets

Page 7 of 7
Revision 3
Supersedes: Revision 2 dated 05/11/2013

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

16. ADDITIONAL INFORMATION

Revision	This SDS has been updated from Revision 2 to comply with the full implementation of the CLP Regulation (EC) No 1272/2008 for mixtures, namely the classification of ingredients and preparations using the new GHS/CLP symbols and phrases and communication of classification, hazards and advice according to the new rules. Changes have been made to: Sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15 and 16.
Explanation of H-phrases that appear in section 3	H226 Flammable liquid and vapour H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H332 Harmful if inhaled H373 May cause damage to organs through prolonged or repeated exposure if inhaled H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects 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/legal-content/EN/TXT/PDF/?uri=OJ:L:2011:083:FULL&from=EN
Method used to classify:	Mixture has been classified by reference to information on ingredients
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.