

GEMINI BIO POWDER

REVISION DATE 16th Feb 2015

Revision no : 2



GEMINI BIO POWDER

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

| | |
|----------------------------|---|
| Product Name | GEMINI BIO POWDER |
| Supplier | CLEENOL GROUP LIMITED Neville House, Beaumont Road, Banbury, Oxon OX16 1RB Tel: 01295 251721 FAX: 01295 269561 E Mail: sales@cleenol.co.uk |
| Emergency Telephone | Poisons Information Specialist National Poisons Information Service Birmingham B18 7QH Tel: 0121 507 5122 |

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC) No. 1272/2008

| | |
|---------------|-------------------|
| Physical: | Not classified |
| Health: | Eye Dam. 1 – H318 |
| Environmental | Not classified |

2.1 Signal word Danger

Hazard statement(s) H318 – Causes serious eye damage

Precautionary statement(s)
P280 – Wear protective gloves/protective clothing/eye protection/face protection
P305+351+338 –IF IN EYES: Rinse continuously with water for several minutes.
Remove contact lenses if present and easy to do – continue rinsing
P310 – Immediately call POISON CENTER or doctor/physician

2.2 Label elements

2.2.1 Label elements
GHS Product Identifier

Hazard pictogram(s) Reach



GHS05

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3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient | Ec No. | Cas No | Classification (67/548/EEC) | Classification (EC 1272/2008) | Conc |
|---------------------------------------|-----------|------------|--------------------------------|---|-------|
| SODIUM CARBONATE | 207-838-8 | 497-19-8 | Xi; R36 | Physical: Not classified Health: Eye Irrit 2 – H319 Environmental – Not classified | <20% |
| SODIUM METASILICATE PENTAHYDRATE | 229-912-9 | 10213-79-3 | C; R34 Xi; R37 | Physical; Met Corrosive 1- H290 Health; Skin Corr. 1B-H314 Eye Dam; 1 – H318; STOT SE3-H335 Environmental; Not Classified | <5% |
| SODIUM PERCARBONATE | 239-707-6 | 15630-89-4 | O;R8, Xn; R22 Xi; R41 | Physical; OX. Sol 2-H272 Health; Acute Tox 4-H302; Eye Damage 1- H318 Environmental – Not classified | 5-10% |
| AMYLASE | 232-565-6 | 9000-90-2 | R42 | Physical; Not classified Health; Resp. Seas.1-H334 Environmental – Not classified | <1% |
| LIPASE | 232-752-2 | 9001-01-1 | R42 | Physical; Not classified Health; Resp. Seas.1-H334 Environmental – Not classified | <1% |
| SUBTILISIN | 232-752-2 | 9014-01-1 | R42, Xi; R37/38, R41 | Physical; Not classified Health; Skin Irrit. 2-H315; Eye Dam. 1 –H318; Resp. Sens.1- H334; stot se3-H335 Environmental – Not classified | <1% |
| SODIUM DODECEYL BENZENE SULPHONATE | 246-680-4 | 25155-30-0 | Xn;R22, Xi;R38, R41 | Physical: Not classified Health; Acute Tox 4-H302; Eye Damage 1- H318 Skin Irritation2 – H315 Environmental; Not Classified | <3% |
| FRAGRANCE | N/A | N/A | R43 | Physical; Not classified Health; Skin Sens. 1-H317 Environmental; Chronic Cat 2 –H411 | 0.04% |

The full text for all R-phrases is shown in Section 16.

The full text for all H-phrases is shown in Section 16.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES (SYMPTOMS)

| | |
|--------------|--|
| INHALATION | Move exposed person to fresh air. Get medical attention |
| SKIN CONTACT | Remove contaminated clothing immediately and wash with soap and water. Get medical attention immediately |
| EYE CONTACT | Immediately flush with plenty of water for up to 15 minutes. Remove contact lenses if safe and easy to do so, open eyes wide apart. Get medical attention immediately. Continue to rinse. |
| INGESTION | Get medical advice immediately! Do Not Induce Vomiting! Immediately rinse mouth and drink plenty of water |

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4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

| | |
|---------------------|---|
| GENERAL INFORMATION | Symptoms described are dependent upon the concentration and exposure time |
| INHALATION | Possible irritation of throat, nose & airway |
| SKIN CONTACT | Irritation to skin |
| EYE CONTACT | Possible serious eye damage |
| INGESTION | Irritation, possible burns to throat mouth and stomach |

In all cases, if symptoms persist, seek medical advice and show this information sheet.

Note for Medical Practitioners : This information is registered with the National Poisons Information Service.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media

The preparation is not readily flammable, use fire-extinguishing media suitable for surrounding materials

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE EXPOSURE HAZARDS

When heated in the case of fire, harmful or toxic gases may be produced

5.3 ADVICE FOR FIRE-FIGHTERS

Special protective equipment for fire fighters

Full protective equipment including self-contained respiratory protection must be worn

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- The wearing of suitable protective equipment (including personal protective equipment, see section 8 of this SDS) to prevent any contamination of skin, eyes and personal clothing.
- Provide sufficient ventilation.
- Follow precautions for safe handling described in section 7 of this SDS.

6.2 ENVIRONMENTAL PRECAUTIONS

Spillages of uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body, without endangering individuals every effort should be made to prevent entrance to drains.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Drains should be Bunded or capped to prevent entrance or damage.

Ventilate well. Brush or vacuum up taking care not to create excessive dust. Place in suitable containers. Dilute area with copious amounts of water.

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7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid Spilling, skin and eye contact.

Do Not Smoke In Work Area! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using, do not eat, drink or smoke.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep containers tightly closed. Keep in original containers. Do not allow product to freeze, avoid extreme temperatures

7.3 SPECIFIC END USE(S)

The identified use for this product is detailed in section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

| Name | STD | Long Term | | Notes |
|---------------------|-------|---------------------------|---------------|------------|
| Sodium Carbonate | DNELs | 10mg/m ³ | | |
| Sodium Metasilicate | DNELs | 1.55mg/m ³ | | Inhalation |
| | WEL | TWA – 8 Hrs | STEL – 15 Min | |
| SUBTILISIN | | 0,00004 mg/m ³ | | |

WEL= Workplace Exposure Limit

8.2 EXPOSURE CONTROLS

Provide adequate ventilation

8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE)

RESPIRATORY PROTECTION

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

PVC Gloves are recommended

EYE PROTECTION

Wear approved safety goggles

OTHER PROTECTION

Wear Rubber Apron & Rubber Footwear

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PROTECTIVE EQUIPMENT



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties

| | |
|------------------|------------------------------|
| APPEARANCE | Granular Powder |
| ODOUR | Pleasant |
| COLOUR | White with coloured speckles |
| SOLUBILITY | Soluble in water |
| pH | 9.5-10 |
| RELATIVE DENSITY | 1.1 |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| <u>10.1 REACTIVITY</u> | None known |
| <u>10.2 CHEMICAL STABILITY</u> | Stable under normal conditions & use |
| <u>10.3 POSSIBILITY OF HAZARDOUS REACTIONS</u> | None known |
| <u>10.4 CONDITIONS TO AVOID</u> | Avoid excessive heat for long periods of time |
| <u>10.5 INCOMPATIBLE MATERIALS</u> | |
| <u>10.6 HAZARDOUS DECOMPOSITION PRODUCTS</u> | When heated toxic and corrosive vapours may be formed |

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

We have not carried out any animal testing; therefore we have no toxicological data specifically for this product. The toxicological data, where provided by the raw material manufacture, can be made available on request.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

We have not carried out any Aquatic testing; therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity data, where provided by the raw material manufacturer for the ingredients with aquatic toxicity can be provided on request

12.2 PERSISTENCE AND DEGRADABILITY

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Degradability: the surfactants used in this preparation are designed for disposal via normal foul water disposal methods

12.3 BIOACCUMULATIVE POTENTIAL

This preparation does not contain any substance that is expected to be bioaccumulating

12.4 MOBILITY IN SOIL

Not known

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

This preparation does not contain and PBT or vPvB substances

12.6 OTHER ADVERSE EFFECTS

Not known

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

The preparation is designed for disposal via foul drain after use. Large volumes to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local waste disposal authority. Clean used container and recycle.

NB The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

14.1 UN NUMBER

Not Regulated For Transport

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC TO THE SUBSTANCE OR MIXTURE

Guidance notes: Workplace Exposure Limits EH40

EU Legislation: Safety Data sheets prepared in accordance with REACH Commission Regulation (EU) No 453/2010 and CHIP Directive 1999/45/EEC Classification, Packaging & Labelling of dangerous preparations. Ingredients are listed with classification under both CHIP – Directive 67/548/EEC and GHS / CLP – Regulation (EC) No 1272/2008 classification, ADR 2013

15.2 CHEMICAL SAFETY ASSESSMENT

Not applicable this product is a mixture

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16. OTHER INFORMATION

Safety Data Sheet No C17

| | |
|-----------------------------|---|
| REV. No. REPL. SDS | 1/0 |
| Generated | 16 th February 2015 |
| SDS No. | C17 |
| Notes | This information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of the company's knowledge and belief, accurate and reliable as of date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. |
| Risk phrases in full | R8 – Contact with combustible materials may cause fire R22 – Harmful if swallowed R34 – Causes burns R36/R38 – Irritating to eyes and skin R37 – Irritating to respiratory system R38 – Irritating to skin R41 – Risk of serious damage to eyes R42 – May cause sensitisation by inhalation R43 – May cause sensitisation by skin contact |
| Hazard statements in full | H272 – May intensify fire H290 – May be corrosive to metals H302 – Harmful if swallowed H314 – Causes severe skin burns and eye damage H315 – Causes skin irritation H318 – Causes serious eye damage H319 – Causes serious eye irritation H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 – May cause respiratory |
| Supplementary P- Statements | |

This product is only to be used for the purpose for which it was intended and in accordance with the specified instructions. This product should never be mixed with other chemical products and should be handled with care and stored carefully out of reach of children.

All Cleenol containers are recyclable and we would be pleased to provide relevant information about individual packs, and recycling agencies.

Information contained in this Safety Data Sheet is accurate to the best knowledge of Cleenol Group Ltd.

Because of our continuing desire to incorporate technical improvements and innovations, and in view of the possibility of the occasional need to substitute certain materials, Cleenol reserve the right to alter specifications without notice.

Unless otherwise stated, it is recommended that this product is used within 12 months of purchase