

CLEENOL

For a cleaner, safer world

SAFETY DATA SHEET GEMINI BIOLOGICAL LAUNDRY POWDER

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|-------------------------|----------------------------------|
| Product name | GEMINI BIOLOGICAL LAUNDRY POWDER |
| Internal identification | 031118 |
| Container size | 10kg |

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

| | |
|-----------------|------------|
| Identified uses | Detergent. |
|-----------------|------------|

1.3. Details of the supplier of the safety data sheet

| | |
|----------|---|
| Supplier | Cleenol Group Ltd Neville House Beaumont Road Banbury Oxon OX16 1RB UK Tel: +44 (0)1295 251721 sales@cleenol.co.uk |
|----------|---|

1.4. Emergency telephone number

| | |
|---------------------|---|
| Emergency telephone | In case of a medical emergency following exposure to a chemical, call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only). |
|---------------------|---|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| | |
|-----------------------|-------------------|
| Physical hazards | Not Classified |
| Health hazards | Eye Dam. 1 - H318 |
| Environmental hazards | Not Classified |

2.2. Label elements

Hazard pictograms



| | |
|--------------------------|---|
| Signal word | Danger |
| Hazard statements | EUH208 Contains Lipase, triacylglycerol, SUBTILISIN, AMYLASE. May produce an allergic reaction. H318 Causes serious eye damage. |
| Precautionary statements | P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor. |

GEMINI BIOLOGICAL LAUNDRY POWDER

Contains

SODIUM CARBONATE PEROXYHYDRATE, SODIUM METASILICATE, SODIUM
DODECYLBENZENESULFONATE

2.3. Other hazards
SECTION 3: Composition/information on ingredients
3.2. Mixtures

| | |
|--|--|
| SODIUM CARBONATE | <20% |
| CAS number: 497-19-8 | EC number: 207-838-8 |
| Classification | |
| Eye Irrit. 2 - H319 | |
| SODIUM CARBONATE PEROXYHYDRATE | 5-10% |
| CAS number: 15630-89-4 | EC number: 239-707-6 |
| Classification | |
| Ox. Sol. 2 - H272 Acute Tox. 4 - H302 Eye Dam. 1 - H318 | |
| SODIUM METASILICATE | <5% |
| CAS number: 10213-79-3 | EC number: 229-912-9 |
| | REACH registration number: 01-2119449811-37-XXXX |
| Classification | |
| Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 | |
| SODIUM DODECYLBENZENESULFONATE | <3% |
| CAS number: 25155-30-0 | EC number: 246-680-4 |
| Classification | |
| Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 | |
| Lipase, triacylglycerol | <1% |
| CAS number: 9001-62-1 | |
| Classification | |
| Resp. Sens. 1 - H334 | |

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| | |
|-----------------------|----------------------|
| SUBTILISIN | <1% |
| CAS number: 9014-01-1 | EC number: 232-752-2 |
| Classification | |
| Skin Irrit. 2 - H315 | |
| Eye Dam. 1 - H318 | |
| Resp. Sens. 1 - H334 | |
| STOT SE 3 - H335 | |
| AMYLASE | <1% |
| CAS number: 9000-90-2 | EC number: 232-565-6 |
| Classification | |
| Resp. Sens. 1 - H334 | |

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|---|
| Inhalation | Remove person to fresh air and keep comfortable for breathing. |
| Ingestion | Rinse mouth thoroughly with water. Do not induce vomiting. Give plenty of water to drink. Get medical attention if a large quantity has been ingested. |
| Skin contact | Wash skin thoroughly with soap and water. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. |
| Eye contact | Do not rub eye. Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if symptoms are severe or persist after washing. |

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

| | |
|----------------------------|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | May cause respiratory irritation. |
| Ingestion | May be harmful if swallowed. |
| Skin contact | May cause irritation. |
| Eye contact | Causes serious eye damage. |

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

| | |
|-----------------------------|------------------------------|
| Notes for the doctor | No specific recommendations. |
| Specific treatments | Treat symptomatically. |

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|---|
| Suitable extinguishing media | The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. |
| Unsuitable extinguishing media | None known. |

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5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------|--|
| Specific hazards | None known. |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. |

5.3. Advice for firefighters

| | |
|--|--|
| Protective actions during firefighting | No specific firefighting precautions known. |
| Special protective equipment for firefighters | Use protective equipment appropriate for surrounding materials. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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|-----------------------------|---|
| Personal precautions | Avoid contact with eyes and prolonged skin contact. Use suitable respiratory protection if ventilation is inadequate. |
|-----------------------------|---|

6.2. Environmental precautions

| | |
|----------------------------------|--|
| Environmental precautions | Avoid discharge into drains and the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. |
|----------------------------------|--|

6.3. Methods and material for containment and cleaning up

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|--------------------------------|--|
| Methods for cleaning up | Collect spillage with a shovel and broom, or similar and reuse, if possible. Avoid generation and spreading of dust. Place waste in labelled, sealed containers. Flush contaminated area with plenty of water. |
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6.4. Reference to other sections

| | |
|------------------------------------|---|
| Reference to other sections | For personal protection, see Section 8. For waste disposal, see Section 13. |
|------------------------------------|---|

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|---|---|
| Usage precautions | For professional users only. Avoid contact with eyes and prolonged skin contact. |
| Advice on general occupational hygiene | No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|--|
| Storage precautions | Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at room temperature. |
| Storage class | Unspecified storage. |

7.3. Specific end use(s)

| | |
|----------------------------|---|
| Specific end use(s) | The identified uses for this product are detailed in Section 1.2. |
|----------------------------|---|

GEMINI BIOLOGICAL LAUNDRY POWDER

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

SODIUM METASILICATE (CAS: 10213-79-3)

| | |
|-------------|---|
| DNEL | Workers - Dermal; Long term : 1.49 mg/kg/day Workers - Inhalation; Long term : 6.22 mg/m ³ Consumer - Dermal; Long term : 0.74 mg/kg/day Consumer - Inhalation; Long term : 1.55 mg/m ³ Consumer - Oral; Long term : 0.74 mg/kg/day |
| PNEC | Fresh water; 7.5 mg/l marine water; 1 mg/l Water, Intermittent release; 7.5 mg/l STP; 1000 mg/l |

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

No specific requirements are anticipated under normal conditions of use. For users with sensitive skin, it is recommended that suitable protective gloves are worn. Wear protective gloves made of the following material: Rubber (natural, latex). Nitrile rubber.

Hygiene measures

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection

No specific requirements are anticipated under normal conditions of use. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------------------|--------------------------------------|
| Appearance | Granules. |
| Colour | White. With coloured speckles. |
| Odour | Pleasant, agreeable. |
| pH | pH (concentrated solution): 9.5 - 10 |
| Melting point | No information available. |
| Flash point | Not applicable. |
| Relative density | ~ 1.1 |
| Solubility(ies) | Soluble in water. |
| Auto-ignition temperature | Not applicable. |
| Decomposition Temperature | No information available. |

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| | |
|-----------------------------|---|
| Explosive properties | Not applicable. |
| Oxidising properties | Does not meet the criteria for classification as oxidising. |

9.2. Other information

| | |
|--------------------------|-------|
| Other information | None. |
|--------------------------|-------|

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|-------------------|---|
| Reactivity | There are no known reactivity hazards associated with this product. |
|-------------------|---|

10.2. Chemical stability

| | |
|------------------|--|
| Stability | Stable at normal ambient temperatures. |
|------------------|--|

10.3. Possibility of hazardous reactions

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|---|---|
| Possibility of hazardous reactions | No potentially hazardous reactions known. |
|---|---|

10.4. Conditions to avoid

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|----------------------------|---|
| Conditions to avoid | Avoid excessive heat for prolonged periods of time. |
|----------------------------|---|

10.5. Incompatible materials

| | |
|---------------------------|--|
| Materials to avoid | No specific requirements are anticipated under normal conditions of use. |
|---------------------------|--|

10.6. Hazardous decomposition products

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|---|---|
| Hazardous decomposition products | Does not decompose when used and stored as recommended. |
|---|---|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|------------------------------|---|
| Toxicological effects | Information given is based on data of the components and of similar products. |
|------------------------------|---|

Acute toxicity - oral

| | |
|-------------------------|----------|
| ATE oral (mg/kg) | 5,555.56 |
|-------------------------|----------|

General information

The product is not believed to present a hazard due to its physical nature.

Inhalation

The product is considered to be a low hazard under normal conditions of use. May cause irritation.

Ingestion

No harmful effects expected from quantities likely to be ingested by accident.

Skin contact

Skin irritation should not occur when used as recommended. May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact

Causes serious eye damage.

SECTION 12: Ecological information

| | |
|--------------------|---|
| Ecotoxicity | No negative effects on the aquatic environment are known. |
|--------------------|---|

12.1. Toxicity

| | |
|-----------------|---|
| Toxicity | The product is not believed to present a hazard due to its physical nature. |
|-----------------|---|

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12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

Disposal methods The product is designed and intended for disposal to public sewer after use. Dispose of contents/container in accordance with national regulations.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

GEMINI BIOLOGICAL LAUNDRY POWDER

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

| | |
|---------------------------|---|
| Issued by | Regulatory Chemist |
| Revision date | 02/07/2021 |
| Revision | 2 |
| Supersedes date | 06/05/2020 |
| SDS number | 21264 |
| Hazard statements in full | H272 May intensify fire; oxidiser. 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 irritation. EUH208 Contains Lipase, triacylglycerol, SUBTILISIN, AMYLASE. May produce an allergic reaction. |

This information relates only to the specific material designated 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 the date indicated. However, no warranty, guarantee or representation is made 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.