# SAFETY DATA SHEET

**Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758**

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

### 1.1 Product identifier

**Product name** **Custom lyophilised product - Antibiotics**

**Catalogue Number** 28990028

9 0 2 8 9 9 0 0 2 8

**Product description** Not available.

**Product type** Solid.

**Other means of identification** Not available.

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

**Identified uses**

Use in laboratories
Analytical chemistry.
Scientific research and development

### 1.3 Details of the supplier of the safety data sheet

**Supplier**

Cytiva
Amersham Place
Little Chalfont
Buckinghamshire
HP7 9NA United Kingdom
+44 1494 508000

**Hours of operation**
08.30 - 17.00

**Person who prepared the SDS :** sds_author@cytiva.com

### 1.4 Emergency telephone number

**United Kingdom (UK)**

Cytiva UK
Amersham Place
Little Chalfont
Buckinghamshire
HP7 9NA
t: 0870 606 1921

Call INFOTRAC 24 Hour number:
001-352-323-3500 (Calll Collect).

**National advisory body/Poison Centre**

**United Kingdom (UK)**

Health professionals should contact the National Poisons Information Service (NPIS) by telephone, or use TOXBASE www.toxbase.org .

NPIS http://www.npis.org/ advise that others seeking specific information on poisons should contact:
In England and Wales: NHS Direct - 0845 4647 or 111
In Scotland: NHS 24 - 08454 24 24 24
In N Ireland: Contact your local GP or pharmacist during normal hours; click here (www.gpoutofhours.hscni.net/ ) for GP services Out-of-Hours.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** Mixture

**Classification according to UK CLP/GHS**

Repr. 1B, H360FD

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

| | |
|---|---|
| **Ingredients of unknown toxicity** | 68 percent of the mixture consists of component(s) of unknown acute oral toxicity<br>72 percent of the mixture consists of component(s) of unknown acute dermal toxicity<br>71 percent of the mixture consists of component(s) of unknown acute inhalation toxicity |
| **Ingredients of unknown ecotoxicity** | Contains 69% of components with unknown hazards to the aquatic environment |

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms**

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statements** | May damage fertility. May damage the unborn child. |

**Precautionary statements**

| | |
|---|---|
| **General** | Not applicable. |
| **Prevention** | Obtain special instructions before use. Wear protective gloves. Wear protective clothing: Recommended: lab coat. Wear eye or face protection. Wear hearing protection. |
| **Response** | IF exposed or concerned: Get medical advice or attention. |
| **Storage** | Not applicable. |
| **Disposal** | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| **Supplemental label elements** | Not applicable. |
| **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** | Restricted to professional users. |

**Special packaging requirements**

| | |
|---|---|
| **Containers to be fitted with child-resistant fastenings** | Not applicable. |
| **Tactile warning of danger** | Not applicable. |

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

| | |
|---|---|
| **Other hazards which do not result in classification** | None known. |

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|---|---|---|
| disodium tetraborate decahydrate | REACH #: 01-2119490790-32<br>EC: 215-540-4<br>CAS: 1303-96-4<br>Index: 005-011-01-1 | 2 | Acute Tox. 3, H331<br>Repr. 1B, H360FD | [1] [2]<br>[3] |
| boric acid | REACH #: 01-2119486683-25<br>EC: 233-139-2<br>CAS: 10043-35-3<br>Index: 005-007-00-2 | 2 | Repr. 1B, H360FD | [1] [3] |
| sucrose | UK (GB) REACH #: Annex IV<br>REACH #: Annex IV<br>EC: 200-334-9<br>CAS: 57-50-1 | 1 | Not classified. | [2] |

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance with carcinogenic, mutagenic or reproductive toxicity properties

Occupational exposure limits, if available, are listed in Section 8.

# SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact**
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact**
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**
Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders**
No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

**Over-exposure signs/symptoms**

**Eye contact**
No specific data.

**Inhalation**
Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Skin contact**
Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Ingestion**
Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

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

**Notes to physician**
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
No specific treatment.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**
Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**
None known.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture**
No specific fire or explosion hazard.

**Hazardous combustion products**
Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

### 5.3 Advice for firefighters

| | |
|---|---|
| **Special precautions for fire-fighters** | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| **Special protective equipment for fire-fighters** | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents. |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| **For non-emergency personnel** | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| **For emergency responders** | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

### 6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

| | |
|---|---|
| **Small spill** | Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| **Large spill** | Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. |

### 6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

| | |
|---|---|
| **Protective measures** | Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| **Advice on general occupational hygiene** | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

### 7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

| | |
|---|---|
| **Recommendations** | Analytical reagent. Laboratory chemicals Research and Development |
| **Industrial sector specific solutions** | Not available. |

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits**

| Product/ingredient name | Exposure limit values |
|---|---|
| disodium tetraborate decahydrate | **EH40/2005 WELs (United Kingdom (UK), 1/2020)**<br>TWA 8 hours: 5 mg/m³. |
| sucrose | **EH40/2005 WELs (United Kingdom (UK), 1/2020)**<br>STEL 15 minutes: 20 mg/m³.<br>TWA 8 hours: 10 mg/m³. |

**Biological exposure indices**

No exposure indices known.

**Recommended monitoring procedures**

Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs**

| Product/ingredient name | Result |
|---|---|
| boric acid | **DNEL - General population - Short term - Oral**<br>0.98 mg/kg bw/day<br>Effects: Systemic<br><br>**DNEL - General population - Long term - Oral**<br>0.98 mg/kg bw/day<br>Effects: Systemic<br><br>**DNEL - General population - Long term - Inhalation**<br>4.15 mg/m³<br>Effects: Systemic<br><br>**DNEL - Workers - Long term - Inhalation**<br>8.3 mg/m³<br>Effects: Systemic<br><br>**DNEL - General population - Long term - Dermal**<br>196 mg/kg bw/day<br>Effects: Systemic<br><br>**DNEL - Workers - Long term - Dermal**<br>392 mg/kg bw/day<br>Effects: Systemic |

**PNECs**

Not available.

### 8.2 Exposure controls

**Appropriate engineering controls**

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Individual protection measures**

**Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

**Other skin protection**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: A respirator is not needed under normal and intended conditions of product use.

**Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Solid. |
| **Colour** | Not available. |
| **Odour** | Not available. |
| **Odour threshold** | Not available. |
| **pH** | 8 |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | Not applicable. |
| **Flash point** | Not applicable. |
| **Auto-ignition temperature** | Not applicable. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): Not available. |
| **Solubility in water** | Not available. |
| **Partition coefficient: n-octanol/ water** | Not applicable. |
| **Vapour pressure** | Not available. |
| **Evaporation rate** | Not available. |
| **Relative density** | Not available. |
| **Vapour density** | Not applicable. |
| **Explosive properties** | Not considered to be a product presenting a risk of explosion. |
| **Oxidising properties** | Not available. |
| **Particle characteristics** | |
| **Median particle size** | Not available. |

### 9.2 Other information

Not available.

| | |
|---|---|
| **Burning time** | Not available. |
| **Burning rate** | Not available. |
| **Solubility in water** | Not available. |

## SECTION 10: Stability and reactivity

| | |
|---|---|
| **10.1 Reactivity** | No specific test data related to reactivity available for this product or its ingredients. |
| **10.2 Chemical stability** | The product is stable. |
| **10.3 Possibility of hazardous reactions** | Under normal conditions of storage and use, hazardous reactions will not occur. |
| **10.4 Conditions to avoid** | No specific data. |
| **10.5 Incompatible materials** | No specific data. |
| **10.6 Hazardous decomposition products** | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

**Acute toxicity**

| Product/ingredient name | Result |
|---|---|
| disodium tetraborate decahydrate | **Rat - Oral - LD50**<br>4500 mg/kg<br><br>**Rabbit - Dermal - LD50**<br>>2000 mg/kg<br><br>**Rat - Oral - LD50**<br>2660 mg/kg<br><br>**Rat - Inhalation - LC50 Vapour**<br>>2 g/m³ [4 hours] |
| boric acid | **Rat - Oral - LD50**<br>2660 mg/kg |
| sucrose | **Rat - Oral - LD50**<br>29700 mg/kg<br>Toxic effects: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Cyanosis Gastrointestinal - Hypermotility, diarrhea |

**Conclusion/Summary [Product]** Not available.

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| Custom lyophilised product - Antibiotics | N/A | N/A | N/A | 43.5 | 19.4 |
| disodium tetraborate decahydrate | 2660 | N/A | N/A | 3 | N/A |
| boric acid | 2660 | N/A | N/A | N/A | N/A |
| sucrose | 29700 | N/A | N/A | N/A | N/A |

**Skin corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** Not available.

**Serious eye damage/eye irritation**

Not available.

**Conclusion/Summary [Product]** Not available.

**Respiratory corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** Not available.

**Respiratory or skin sensitization**

Not available.

**Skin**

**Conclusion/Summary [Product]** Not available.

**Respiratory**

**Conclusion/Summary [Product]** Not available.

**Germ cell mutagenicity**

Not available.

**Conclusion/Summary [Product]** Not available.

**Carcinogenicity**

Not available.

**Conclusion/Summary [Product]** Not available.

**Reproductive toxicity**

Not available.

**Conclusion/Summary [Product]** Not available.

| Ingredient name | Conclusion/Summary |
|---|---|
| boric acid | Reproductive toxin |

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

**Potential acute health effects**

| | |
|---|---|
| **Inhalation** | No known significant effects or critical hazards. |
| **Ingestion** | No known significant effects or critical hazards. |
| **Skin contact** | No known significant effects or critical hazards. |
| **Eye contact** | No known significant effects or critical hazards. |

**Symptoms related to the physical, chemical and toxicological characteristics**

| | |
|---|---|
| **Inhalation** | Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| **Ingestion** | Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| **Skin contact** | Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| **Eye contact** | No specific data. |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Short term exposure**

| | |
|---|---|
| **Potential immediate effects** | Not available. |
| **Potential delayed effects** | Not available. |

**Long term exposure**

| | |
|---|---|
| **Potential immediate effects** | Not available. |
| **Potential delayed effects** | Not available. |

**Potential chronic health effects**

Not available.

**Conclusion/Summary [Product]** Not available.

| | |
|---|---|
| **General** | No known significant effects or critical hazards. |
| **Carcinogenicity** | No known significant effects or critical hazards. |
| **Mutagenicity** | No known significant effects or critical hazards. |

| | |
|---|---|
| **Reproductive toxicity** | May damage fertility. May damage the unborn child. |
| **Other information** | Not available. |

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result |
|---|---|
| disodium tetraborate decahydrate | **Acute - LC50**<br>Fish - *Salmo trutta*<br>27 mg/l [27 hours]<br><br>**Acute - EC50**<br>Daphnia<br>141 mg/l [48 hours] |
| boric acid | **Chronic - NOEC - Fresh water**<br>Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*<br>2100 µg/l [87 days]<br>Effect: Mortality<br><br>**Chronic - NOEC - Fresh water**<br>Daphnia - Water flea - *Daphnia magna*<br>Age: <24 hours<br>6000 µg/l [21 days]<br>Effect: Reproduction<br><br>**Acute - LC50 - Fresh water**<br>US EPA<br>Crustaceans - Water flea - *Ceriodaphnia dubia*<br>Age: <24 hours<br>45.5 mg/l [48 hours]<br>Effect: Mortality<br><br>**Acute - LC50 - Marine water**<br>OECD<br>Fish - Red sea bream - *Pagrus major*<br>Weight: 0.6 g<br>75 mg/l [96 hours]<br>Effect: Mortality |

**Conclusion/Summary [Product]** Not available.

### 12.2 Persistence and degradability

Not available.

**Conclusion/Summary [Product]** Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| ≤3 | -1.09 | - | Low |
| ≤3 | -3.7 | - | Low |

### 12.4 Mobility in soil

**Soil/water partition coefficient** Not available.

**Mobility** Not available.

### 12.5 Results of PBT and vPvB assessment

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| disodium tetraborate decahydrate | No | No | No | No | No | No | No |
| boric acid | No | No | No | No | No | No | No |
| sucrose | No | N/A | N/A | No | N/A | N/A | N/A |

**12.6 Other adverse effects** No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

**Product**

**Methods of disposal** The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** The classification of the product may meet the criteria for a hazardous waste.

**Packaging**

**Methods of disposal** The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number** | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **14.2 UN proper shipping name** | - | - | - | - |
| **14.3 Transport hazard class(es)** | - | - | - | - |
| **14.4 Packing group** | - | - | - | - |
| **14.5 Environmental hazards** | No. | No. | No. | No. |
| **Additional information** | - | - | - | - |

**14.6 Special precautions for user** **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** Not available.

## SECTION 15: Regulatory information

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

**UK (GB)/REACH**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

| Intrinsic property | Ingredient name | Status | Reference number | Date of revision |
|---|---|---|---|---|
| Toxic to reproduction | disodium tetraborate, anhydrous | Candidate | - | 6/18/2010 |
| | boric acid | Candidate | - | 6/18/2010 |

**Ozone depleting substances**

Not listed.

**Prior Informed Consent (PIC)**

Not listed.

**Persistent Organic Pollutants**

Not listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

| Product/ingredient name | % | Designation [Usage] |
|---|---|---|

| | | |
|---|---|---|
| Custom lyophilised product - Antibiotics | ≥90 | 30 |
| disodium tetraborate decahydrate | ≤3 | 30 |
| boric acid | ≤3 | 30 |

**Labelling** Restricted to professional users.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**EU regulations**

| | |
|---|---|
| **Industrial emissions (integrated pollution prevention and control) - Air** | Not listed |
| **Industrial emissions (integrated pollution prevention and control) - Water** | Not listed |

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list**

| | |
|---|---|
| **United States** | Not determined. |
| **Canada inventory** | Not determined. |
| **China** | Not determined. |
| **Japan** | **Japan inventory (CSCL)**: Not determined.<br>**Japan inventory (ISHL)**: Not determined. |
| **15.2 Chemical safety assessment** | This product contains substances for which Chemical Safety Assessments are still required. |

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification**

| Classification | Justification |
|---|---|
| Repr. 1B, H360FD | Calculation method |

**Full text of abbreviated H statements**

H331 Toxic if inhaled.
H360FD May damage fertility. May damage the unborn child.

**Full text of classifications**

| | |
|---|---|
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Repr. 1B | REPRODUCTIVE TOXICITY - Category 1B |

| | |
|---|---|
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