



# Safety Data Sheet

Canada

## Section 1. Identification

Product name

**Custom lyophilised product - Antibiotics**

Catalogue Number

**28990028**



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Product type

Solid.

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

### Identified uses

Use in laboratories

Analytical chemistry.

Scientific research and development

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

**Importer** Cytiva Canada  
1055 Vernon Dr  
Vancouver BC V6A 3P4  
Canada  
+1 778-956-2584

### In case of emergency

INFOTRAC

Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)  
In the United States, call 24 Hour number: 1-800-535-5053

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## Section 2. Hazard identification

**Classification of the substance** TOXIC TO REPRODUCTION - Category 1B  
**or mixture**

### GHS label elements

#### Hazard pictograms



**Signal word**

Danger

**Hazard statements**

May damage fertility or the unborn child.

#### Precautionary statements

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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**

Store locked up.

**Disposal**

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements**

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 69%

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### Section 3. Composition/information on ingredients

**Substance/mixture** Mixture

**Other means of identification** Not available.

Ingredient name	Synonyms	% (w/w)	CAS number
Sodium tetraborate decahydrate	borax decahydrate; Borax; Sodium tetraborate, decahydrate; Borates, tetra, sodium salts, Decahydrate; BORATES, TETRA, SODIUM SALTS DECAHYDRATE; Sodium Tetraborate Decahydrate; Sodium borate decahydrate; Borates, tetra, sodium salts (decahydrate); Borates, tetra, sodium salts: Decahydrate; disodium tetraborate decahydrate, other than natural borate of heading N° 2528; borax; borax decahydrate; sodium tetraborate decahydrate; sodium baborate decahydrate; sodium pyroborate decahydrate; E 285	≥1 - ≤5	CAS: 1303-96-4
Boric acid	Boric acid (H3BO3); Orthoboric acid; boric acid, other than natural boric acid of heading N° 2528; boric acid, crude natural, containing not more than 85 per cent of H3BO3 calculated on the dry weight; product consisting of ammonium nitrate, magnesium nitrate, mixture of diammonium phosphate and ammonium sulphate and boric acid; E 284; boracic acid; orthoboric acid; borofax; TRIHYDROXYBORANE; BORON TRIHYDROXIDE; Boracic acid; trioxoboric acid; Trihydroxidoboron	≥1 - ≤5	CAS: 10043-35-3
Sucrose	.alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl; α-D-Glucopyranoside, β-D-fructofuranosyl; Saccharose; Sugar; Table sugar; Saccarose; Rock candy; Granulated sugar; Confectioner's sugar; Cane sugar; Beet sugar	≥0.5 - ≤1.5	CAS: 57-50-1
Glucose	D-Glucose; Dextrose; D-gluconaldehyde; product composed of 62,1 % calcium carrageenate, 32,9 % dextrose and 5 % sucrose; DEXTROSE, ANHYDROUS; Grape sugar; GLUCOSE, D-; corn sugar; glucolin; D-GLUCOSE ANHYDROUS GRANULAR; GLUCOSE POWDER	≥0.5 - ≤1.5	CAS: 50-99-7
sodium formate	Formic acid, sodium salt (1:1); Formic acid, sodium salt; Formic acid sodium salt; Formic acid salt (K,Na,Ca,Li,Mg,Al); FORMATE, SODIUM	≥0.5 - ≤1.5	CAS: 141-53-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

### Section 4. First-aid measures

#### Description of necessary first aid measures

<b>Eye contact</b>	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.
<b>Inhalation</b>	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.



<b>Skin contact</b>	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.
<b>Ingestion</b>	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.

**Most important symptoms/effects, acute and delayed****Potential acute health effects**

<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

<b>Eye contact</b>	No specific data.
<b>Inhalation</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Skin contact</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Ingestion</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

**Indication of immediate medical attention and special treatment needed, if necessary**

<b>Notes to physician</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	No specific treatment.
<b>Protection of first-aiders</b>	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.

**See toxicological information (Section 11)****Section 5. Fire-fighting measures****Extinguishing media**

<b>Suitable extinguishing media</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	None known.

<b>Specific hazards arising from the chemical</b>	No specific fire or explosion hazard.
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<b>Hazardous thermal decomposition products</b>	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
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<b>Special protective actions for fire-fighters</b>	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.
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<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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## Section 6. Accidental release measures

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

<b>For non-emergency personnel</b>	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 spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	If specialized 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".
<b>Environmental precautions</b>	Avoid dispersal of spilled 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).

### **Methods and materials for containment and cleaning up**

<b>Small spill</b>	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.
<b>Large spill</b>	Move containers from spill area. Approach 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.

## Section 7. Handling and storage

### **Precautions for safe handling**

<b>Protective measures</b>	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.
<b>Advice on general occupational hygiene</b>	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.

### **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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

**Ingredient name**  
Sodium tetraborate decahydrate

#### **Exposure limits**

##### **CA Saskatchewan Provincial (Canada, 4/2021)**

##### **[Borate compounds, inorganic]**

STEL 15 minutes: 6 mg/m<sup>3</sup>. Form: Inhalable fraction.

TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Inhalable fraction.

##### **CA British Columbia Provincial (Canada, 9/2024)**

##### **[borate compounds, inorganic]**

TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Inhalable.

STEL 15 minutes: 6 mg/m<sup>3</sup>. Form: Inhalable.

##### **CA Ontario Provincial (Canada, 6/2019) [Borate compounds, Inorganic]**

TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Inhalable particulate matter..

STEL 15 minutes: 6 mg/m<sup>3</sup>. Form: Inhalable particulate matter..

##### **CA Quebec Provincial (Canada, 2/2024) [borate, inorganic compounds]**

STEV 15 minutes: 6 mg/m<sup>3</sup>. Form: inhalable aerosol fraction.



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	TWAEV 8 hours: 2 mg/m <sup>3</sup> . Form: inhalable aerosol fraction. <b>CA Alberta Provincial (Canada, 3/2023)</b> OEL 8 hours: 1 mg/m <sup>3</sup> . OEL 15 minutes: 3 ppm.
Boric acid	<b>CA Saskatchewan Provincial (Canada, 4/2021)</b> [Borate compounds, inorganic] STEL 15 minutes: 6 mg/m <sup>3</sup> . Form: Inhalable fraction. <b>CA British Columbia Provincial (Canada, 9/2024)</b> [borate compounds, inorganic] TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Inhalable. STEL 15 minutes: 6 mg/m <sup>3</sup> . Form: Inhalable. <b>CA Ontario Provincial (Canada, 6/2019) [Borate compounds, Inorganic]</b> TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Inhalable particulate matter.. STEL 15 minutes: 6 mg/m <sup>3</sup> . Form: Inhalable particulate matter.. <b>CA Quebec Provincial (Canada, 2/2024) [borate, inorganic compounds]</b> STEV 15 minutes: 6 mg/m <sup>3</sup> . Form: inhalable aerosol fraction. TWAEV 8 hours: 2 mg/m <sup>3</sup> . Form: inhalable aerosol fraction.
Sucrose	<b>CA Saskatchewan Provincial (Canada, 4/2021)</b> STEL 15 minutes: 20 mg/m <sup>3</sup> . TWA 8 hours: 10 mg/m <sup>3</sup> . <b>CA British Columbia Provincial (Canada, 9/2024)</b> Notes: The 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m <sup>3</sup> for the respirable fraction. TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Total dust. TWA 8 hours: 3 mg/m <sup>3</sup> . Form: respirable fraction. <b>CA Ontario Provincial (Canada, 6/2019)</b> TWA 8 hours: 10 mg/m <sup>3</sup> . <b>CA Quebec Provincial (Canada, 2/2024)</b> TWAEV 8 hours: 10 mg/m <sup>3</sup> . <b>CA Alberta Provincial (Canada, 3/2023)</b> OEL 8 hours: 10 mg/m <sup>3</sup> .

#### Biological exposure indices

No exposure indices known.

<b>Appropriate engineering controls</b>	If user operations generate dust, fumes, gas, vapor 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.
<b>Environmental exposure controls</b>	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.

#### Individual protection measures

<b>Hygiene measures</b>	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.
<b>Eye/face protection</b>	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.
<b>Skin protection</b>	

#### **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.



<b>Body protection</b>	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
<b>Other skin protection</b>	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.
<b>Respiratory protection</b>	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.

## Section 9. Physical and chemical properties and safety characteristics

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

### Appearance

<b>Physical state</b>	Solid.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	8
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not applicable.
<b>Burning time</b>	Not available.
<b>Burning rate</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Lower and upper explosive (flammable) limits</b>	Not applicable.
<b>Vapor pressure</b>	Not available.
<b>Relative vapor density</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility in water</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not available.
<b>SADT</b>	Not available.
<b>Viscosity</b>	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.
<b>Flow time (ISO 2431)</b>	Not available.

### Particle characteristics

<b>Median particle size</b>	Not available.
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## Section 10. Stability and reactivity

<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	No specific data.
<b>Incompatible materials</b>	No specific data.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.



## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### **Product/ingredient name**

Sodium tetraborate decahydrate

##### **Result**

**Rat - Oral - LD50**

4500 mg/kg

**Rabbit - Dermal - LD50**

>2000 mg/kg

**Rat - Oral - LD50**

2660 mg/kg

**Rat - Inhalation - LC50 Vapor**

>2 g/m<sup>3</sup> [4 hours]

**Rat - Oral - LD50**

2660 mg/kg

**Rat - Oral - LD50**

29700 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity)

Lung, Thorax, or Respiration - Cyanosis Gastrointestinal - Hypermotility, diarrhea

Boric acid

**Rat - Oral - LD50**

25800 mg/kg

Toxic effects: Behavioral - Coma Lung, Thorax, or Respiration -

Cyanosis Gastrointestinal - Hypermotility, diarrhea

Sucrose

**Rat - Inhalation - LC50 Dusts and mists**

670 mg/m<sup>3</sup> [4 hours]

Glucose

**Conclusion/Summary  
[Product]**

Not available.

#### 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.



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

### **Carcinogenicity**

Not available.

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

### **Classification**

<b>Product/ingredient name</b>	<b>IARC</b>	<b>NTP</b>	<b>ACGIH</b>
Sodium tetraborate decahydrate	-	-	A4
Boric acid	-	-	A4
Sucrose	-	-	A4

### **Reproductive toxicity**

Not available.

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

<b>Ingredient name</b>	<b>Conclusion/Summary</b>
Boric acid	Reproductive toxin

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

<b>Product/ingredient name</b>	<b>Result</b>
Sodium tetraborate decahydrate	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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

Not available.

### **Aspiration hazard**

Not available.

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

### **Potential acute health effects**

<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	No known significant effects or critical hazards.

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

<b>Eye contact</b>	No specific data.
<b>Inhalation</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Skin contact</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Ingestion</b>	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

### **Delayed and immediate effects and also 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.

<b>Conclusion/Summary [Product]</b>	Not available.
<b>General</b>	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	May damage fertility or the unborn child.

**Numerical measures of toxicity****Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Custom lyophilised product - Antibiotics	21280.0	35000	N/A	43.5	19.4
Sodium tetraborate decahydrate	2660	2500	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
Glucose	25800	N/A	N/A	N/A	N/A
sodium formate	N/A	N/A	N/A	N/A	0.67

**Section 12. Ecological information****Toxicity****Product/ingredient name**

Sodium tetraborate decahydrate

**Result****Acute - LC50**

Fish - *Salmo trutta*

27 mg/l [27 hours]

**Acute - EC50**

Daphnia

141 mg/l [48 hours]

**Chronic - NOEC - Fresh water**

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*

2100 µg/l [87 days]

Effect: Mortality

**Chronic - NOEC - Fresh water**

Daphnia - Water flea - *Daphnia magna*

Age: <24 hours

6000 µg/l [21 days]

Effect: Reproduction

**Acute - LC50 - Fresh water**

US EPA

Crustaceans - Water flea - *Ceriodaphnia dubia*

Age: <24 hours

45.5 mg/l [48 hours]

Effect: Mortality

**Acute - LC50 - Marine water**

OECD

Fish - Red sea bream - *Pagrus major*

Weight: 0.6 g

75 mg/l [96 hours]

Effect: Mortality

**Acute - LC50 - Fresh water**

Fish - Fathead minnow - *Pimephales promelas*

2300 mg/l [96 hours]

Effect: Mortality

**Acute - LC50 - Fresh water**

Crustaceans - Water flea - *Ceriodaphnia dubia*

sodium formate



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1400 mg/l [48 hours]  
Effect: Mortality

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

**Persistence and degradability**

Not available.

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

<b>Product/ingredient name</b>	<b>Aquatic half-life</b>	<b>Photolysis</b>	<b>Biodegradability</b>
Glucose	-	-	Readily

**Bioaccumulative potential**

<b>Product/ingredient name</b>	<b>LogP<sub>ow</sub></b>	<b>BCF</b>	<b>Potential</b>
Boric acid	-1.09	-	Low
Sucrose	-3.7	-	Low
Glucose	-3.24	-	Low
sodium formate	-2.3	-	Low

**Mobility in soil**

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

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

**Section 13. Disposal considerations**

**Disposal methods** The generation of waste should be avoided or minimized 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 into the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information**

	<b>TDG Classification</b>	<b>DOT Classification</b>	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-	-
<b>Packing group</b>	-	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.	No.
<b>Additional information</b>	-	-	-	-	-
<b>Special precautions for user</b>	<b>Transport within user's premises:</b> 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.				



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

## Section 15. Regulatory information

### Canadian lists

<b>Canadian NPRI</b>	None of the components are listed.
<b>CEPA Toxic substances</b>	None of the components are 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

<b>Canada</b>	Not determined.
<b>United States</b>	Not determined.

## Section 16. Other information

### History

**Date of printing** 2/16/2026

**Date of issue/Date of revision** 2/16/2026

**Date of previous issue** 4/29/2024

**Version** 2.02

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### **Key to abbreviations**

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HPR = Hazardous Products Regulations  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available  
UN = United Nations

### Procedure used to derive the classification

#### **Classification**

TOXIC TO REPRODUCTION - Category 1B

#### **Justification**

Calculation method

### **References**

Not available.



Indicates information that has changed from previously issued version.

### Notice to reader

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