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 USA  
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## Kit Components

Kit Product No.	Kit Product Description
442963	BD MAX™ Enteric Bacterial Panel

Kit Component(s)	Kit Component(s) Description
F11-0223-PR	Elution Buffer
F11-0224-PR	Neutralization buffer
F11-0222-PR	Wash buffer
F53-0096-PR	Extraction tube
F53-0099-PR	Master mix
700013749	Sample buffer tube

### IMDG

Special precautions for user: Not regulated.

### IATA

Special precautions for user: Not regulated.

Please note: If a listed component does not have a corresponding document included, this means that the product is not hazardous and does not require a Safety Data Sheet.

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# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
F11-0223-PR	Elution Buffer	No data available

### Other means of identification

SDS number: 050000040266

### Recommended use of the chemical and restrictions on use

Recommended use: Laboratory Chemicals

Recommended restrictions: None known.

### Supplier's details

#### Supplier

Company Name: Becton Dickinson Ltd.  
Address: 14B George Bourke Drive  
Mt Wellington, Auckland, 1060 New Zealand  
Telephone: 0800 572 468  
Fax:  
Contact Person: Customer Service  
E-mail: bd\_anz@bd.com

Emergency telephone number: ChemTrec New Zealand: +(64)-98010034

## 2. Hazard(s) identification

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001

Classified according to NZS 5433:1999, UN, IMDG, and IATA.

### Classification of the hazardous chemical:

#### Health Hazards

Class 8.2: Corrosiveness – Skin Category A  
corrosiveClass 8.3: Corrosiveness – Eye Category A  
corrosive

### Label elements, including precautionary statements

#### Hazard symbol(s):



Signal Word: Danger



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<b>Hazard Statement(s):</b>	Causes severe skin burns and eye damage.
<b>Precautionary statement(s):</b>	
<b>Prevention:</b>	Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response:</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse.
<b>Storage:</b>	Store locked up.
<b>Disposal:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification:</b>	None.
<b>Supplemental label information</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Concentration*
Sodium hydroxide (Na(OH))	No data available.	1310-73-2	<0.1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**General information:** Causes severe skin burns and eye damage. Get immediate medical advice/attention.

#### Description of necessary first-aid measures

<b>Inhalation:</b>	Move to fresh air. Get medical attention if any discomfort continues.
<b>Skin Contact:</b>	Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact:</b>	Important! Immediately rinse with water for 60 minutes. Get medical attention immediately. Continue to rinse.



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**Ingestion:** Call a physician or poison control center immediately. Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

**Personal Protection for First-aid Responders:** No data available.

#### Symptoms caused by exposure

**Symptoms:** Symptoms may be delayed.

**Hazards:** Causes severe skin burns and eye damage.

#### Medical attention and special treatment

**Treatment** IF exposed or concerned: Get medical advice/attention.

### 5. Fire-fighting measures

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

**Means of fire extinguishing**  
**Suitable extinguishing media** Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.

#### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Hazchem Code:** No data available.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate closed spaces before entering them. Avoid breathing mists or vapors. Keep unauthorized personnel away.

**For non-emergency personnel:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.



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- For emergency responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
- Environmental Precautions:** Do not contaminate water sources or sewer.
- Methods and material for containment and cleaning up:** Stop leak if possible without any risk. Prevent runoff from entering drains, sewers, or streams. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

**7. Handling and storage**

- Precautions for safe handling:** Avoid contact with eyes and prolonged or repeated contact with skin. Avoid inhalation of vapors and spray mists. Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Provide good ventilation.
- Conditions for safe storage, including any incompatibilities:** Store in original tightly closed container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Sodium hydroxide (Na(OH))	CEILING	2 mg/m3	New Zealand. WES. (Workplace Exposure Standards), as amended (09 2010)

**Biological Limit Values**

None of the components have assigned exposure limits.

**Appropriate Engineering Controls:**

Adequate ventilation should be provided so that exposure limits are not exceeded. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

- General information:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
- Eye/face protection:** Wear safety glasses with side shields (or goggles) and a face shield.
- Skin Protection**
  - Hand Protection:** Suitable gloves can be recommended by the glove supplier.
  - Other:** Chemical resistant clothing

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<b>Respiratory Protection:</b>	In case of inadequate ventilation use suitable respirator.
<b>Hygiene measures:</b>	Observe good industrial hygiene practices. Wash at the end of each work shift and before eating, smoking and using the toilet.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	According to product specification.
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	12.2 - 12.4
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	Not applicable
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

## 10. Stability and reactivity

<b>Reactivity:</b>	Product is not reactive under normal conditions and recommended use.
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	Stable; however, may decompose if heated.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight. Do not freeze.
<b>Incompatible Materials:</b>	Avoid contact with oxidizers or reducing agents.



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**Hazardous Decomposition Products:** By heating and fire, corrosive vapors/gases may be formed.

**Other information:** Stable under normal temperature conditions and recommended use.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

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

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

### Information on toxicological effects

#### Acute toxicity

**Oral Product:** Not classified for acute toxicity based on available data.

**Dermal Product:** Not classified for acute toxicity based on available data.

**Inhalation Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity Product:** No data available.

#### Skin irritation and corrosion

**Product:** No data available.

**Specified substance(s):**  
Sodium hydroxide (Na(OH))  
in vivo (Rabbit): Irritating Experimental result, Weight of Evidence study  
in vivo (Rabbit): Slightly irritating Experimental result, Weight of Evidence study

#### Serious Eye Damage/Eye Irritation

**Product:** No data available.

**Specified substance(s):**



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Sodium hydroxide (Na(OH))  
in vivo (Rabbit, 1 d): Mild irritant OECD GHS  
in vivo (Rabbit, 2 d): Mild irritant OECD GHS  
in vivo (Rabbit, 3 d): Mild irritant OECD GHS  
in vivo (Rabbit, 4 d): Mild irritant OECD GHS

#### Respiratory or Skin Sensitization

**Product:** No data available.

#### Carcinogenicity

**Product:** No data available.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

#### Germ Cell Mutagenicity

**In vitro Product:** No data available.

**In vivo Product:** No data available.

#### Reproductive toxicity

**Product:** No data available.

#### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

#### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

#### Aspiration Hazard

**Product:** No data available.

## 12. Ecological information

### Ecotoxicity

#### Acute hazards to the aquatic environment

**Fish Product:** Not expected to be harmful to aquatic organisms.

**Aquatic Invertebrates Product:** No data available.

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**Specified substance(s):**

Sodium hydroxide (Na(OH))  
LOAEL (Daphnia magna): 40 - 240 mg/l Experimental result, Supporting study  
LC 50 (Ophryotrocha diadema, 48 h): 33 - 100 mg/l Experimental result, Supporting study  
LC 50 (Saltwater Shrimp, 48 h): 30 - 100 mg/l Experimental result, Supporting study  
LC (Bulinus truncatus, 96 h): 150 mg/l Experimental result, Supporting study  
LD (Freshwater insect larvae): 125 - 1,000 mg/l Not specified, Supporting study

**Chronic hazards to the aquatic environment**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: No data available.

**Mobility**

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Sodium hydroxide (Na(OH)) No data available.

**Other adverse effects:** No data available.

**13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal methods**

**Disposal instructions:** This material and/or its container must be disposed of as hazardous waste.



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**Contaminated Packaging:** No data available.

#### 14. Transport information

##### International regulations

**IATA** Not regulated.

**IMDG** Not regulated.

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

Not applicable

#### 15. Regulatory information

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001

Classified according to NZS 5433:1999, UN, IMDG, and IATA.

##### Ozone Depleting Substances

Not Regulated

##### New Zealand. CWC. Chemical Weapons (Prohibition) Act 1996 (Schedules of Chemicals 1-3)

Not Regulated

##### International regulations

###### Montreal protocol

Not applicable

###### Stockholm convention

Not applicable

###### Rotterdam convention

Not applicable

###### Kyoto protocol

Not applicable

#### 16. Other Information

**Issue Date:** 09.12.2020

**Revision Information:**

**Further Information:** No data available.



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### Key abbreviations or acronyms used

**References:** No data available.

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# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
F11-0224-PR	Neutralization buffer	No data available

### Other means of identification

SDS number: 050000040267

### Recommended use of the chemical and restrictions on use

**Recommended use:** Laboratory Chemicals

**Recommended restrictions:** None known.

### Supplier's details

#### Supplier

Company Name: Becton Dickinson Ltd.  
Address: 14B George Bourke Drive  
Mt Wellington, Auckland, 1060 New Zealand  
Telephone: 0800 572 468  
Fax:  
Contact Person: Customer Service  
E-mail: bd\_anz@bd.com

**Emergency telephone number:** ChemTrec New Zealand: +(64)-98010034

## 2. Hazard(s) identification

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001

Classified according to NZS 5433:1999, UN, IMDG, and IATA.

### Classification of the hazardous chemical:

Not classified

### Label elements, including precautionary statements

**Hazard symbol(s):** No symbol

**Signal Word:** Not available.

**Hazard Statement(s):** Not applicable

**Precautionary statement(s):**

**Other hazards which do not result in GHS classification:** None.

**Supplemental label information** None.

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### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Concentration*
Sodium hydroxide (Na(OH))	No data available.	1310-73-2	<0.1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**General information:** Get medical attention if symptoms occur.

#### Description of necessary first-aid measures

**Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if symptoms persist.

**Skin Contact:** Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

**Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.

**Personal Protection for First-aid Responders:** No data available.

#### Symptoms caused by exposure

**Symptoms:** Symptoms may be delayed.

**Hazards:** May cause an allergic skin reaction.

#### Medical attention and special treatment

**Treatment** Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

### 5. Fire-fighting measures

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

**Means of fire extinguishing Suitable extinguishing media** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

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**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.

#### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Hazchem Code:** No data available.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

**For non-emergency personnel:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

**For emergency responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Environmental Precautions:** Avoid release to the environment.

**Methods and material for containment and cleaning up:** Stop leak if possible without any risk. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. Absorb spillage with suitable absorbent material. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

### 7. Handling and storage

**Precautions for safe handling:** Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities:** Store in tightly closed original container in a dry, cool and well-ventilated place.

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## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Sodium hydroxide (Na(OH))	CEILING	2 mg/m <sup>3</sup>	New Zealand. WES. (Workplace Exposure Standards), as amended (09 2010)

#### Biological Limit Values

None of the components have assigned exposure limits.

#### Appropriate Engineering Controls:

Adequate ventilation should be provided whenever the material is heated or mists are generated.

#### Individual protection measures, such as personal protective equipment

##### General information:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

##### Eye/face protection:

Wear safety glasses with side shields (or goggles).

##### Skin Protection

##### Hand Protection:

Use suitable protective gloves if risk of skin contact.

##### Other:

Wear appropriate clothing to prevent repeated or prolonged skin contact.

##### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

##### Hygiene measures:

Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

## 9. Physical and chemical properties

### Appearance

#### Physical state:

liquid

#### Form:

liquid

#### Color:

According to product specification.

#### Odor:

Characteristic

#### Odor threshold:

No data available.

#### pH:

No data available.

#### Melting point/freezing point:

No data available.

#### Initial boiling point and boiling range:

No data available.



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<b>Flash Point:</b>	Not applicable
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

## 10. Stability and reactivity

<b>Reactivity:</b>	Stable
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.
<b>Other information:</b>	Stable under normal temperature conditions and recommended use.

## 11. Toxicological information

**General information:** May cause allergic skin reaction based on human experience.

### Information on likely routes of exposure

<b>Inhalation:</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin Contact:</b>	Prolonged or repeated contact may cause skin sensitization in susceptible individuals.
<b>Eye contact:</b>	Avoid contact with eyes.

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**Ingestion:** Ingestion may cause irritation and malaise.

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

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity**

**Oral**

**Product:** Not classified for acute toxicity based on available data.

**Dermal**

**Product:** Not classified for acute toxicity based on available data.

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity**

**Product:** No data available.

**Skin irritation and corrosion**

**Product:** No data available.

**Specified substance(s):**

Sodium hydroxide (Na(OH))  
in vivo (Rabbit): Irritating Experimental result, Weight of Evidence study  
in vivo (Rabbit): Slightly irritating Experimental result, Weight of Evidence study

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Specified substance(s):**

Sodium hydroxide (Na(OH))  
in vivo (Rabbit, 1 d): Mild irritant OECD GHS  
in vivo (Rabbit, 2 d): Mild irritant OECD GHS  
in vivo (Rabbit, 3 d): Mild irritant OECD GHS  
in vivo (Rabbit, 4 d): Mild irritant OECD GHS

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

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**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**12. Ecological information**

**Ecotoxicity**

**Acute hazards to the aquatic environment**

**Fish**

**Product:** Harmful to aquatic organisms.

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Sodium hydroxide (Na(OH))  
LOAEL (Daphnia magna): 40 - 240 mg/l Experimental result, Supporting study  
LC 50 (Ophryotrocha diadema, 48 h): 33 - 100 mg/l Experimental result, Supporting study  
LC 50 (Saltwater Shrimp, 48 h): 30 - 100 mg/l Experimental result, Supporting study  
LC (Bulinus truncatus, 96 h): 150 mg/l Experimental result, Supporting study  
LD (Freshwater insect larvae): 125 - 1,000 mg/l Not specified, Supporting study

**Chronic hazards to the aquatic environment**

**Fish**

**Product:** Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the environment.

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#### **Aquatic Invertebrates**

**Product:** Expected to be harmful to aquatic organisms.

#### **Toxicity to Aquatic Plants**

**Product:** No data available.

#### **Persistence and Degradability**

##### **Biodegradation**

**Product:** No data available.

##### **BOD/COD Ratio**

**Product:** No data available.

#### **Bioaccumulative potential**

##### **Bioconcentration Factor (BCF)**

**Product:** No data available.

##### **Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: No data available.

#### **Mobility**

**Mobility in soil:** No data available.

#### **Known or predicted distribution to environmental compartments**

Sodium hydroxide (Na(OH)) No data available.

**Other adverse effects:** No data available.

### **13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.

#### **Disposal methods**

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:** No data available.

### **14. Transport information**

#### **International regulations**

**IATA**Not regulated.

**IMDG**Not regulated.

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**Transport in bulk according to Annex II of MARPOL and the IBC Code**  
Not applicable

#### 15. Regulatory information

**Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001**

**Classified according to NZS 5433:1999, UN, IMDG, and IATA.**

**Ozone Depleting Substances**  
Not Regulated

**New Zealand. CWC. Chemical Weapons (Prohibition) Act 1996 (Schedules of Chemicals 1-3)**  
Not Regulated

#### International regulations

**Montreal protocol**  
Not applicable

**Stockholm convention**  
Not applicable

**Rotterdam convention**  
Not applicable

**Kyoto protocol**  
Not applicable

#### 16. Other Information

**Issue Date:** 27.11.2020

**Revision Information:**

**Further Information:** No data available.

**Key abbreviations or acronyms used**

**References:** No data available.



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# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
F11-0222-PR	Wash buffer	No data available

### Other means of identification

SDS number: 050000040265

### Recommended use of the chemical and restrictions on use

**Recommended use:** Laboratory Chemicals

**Recommended restrictions:** None known.

### Supplier's details

#### Manufacturer

Company Name: Becton Dickinson Ltd.  
Address: 14B George Bourke Drive  
Mt Wellington, Auckland, 1060 New Zealand  
Telephone: 0800 572 468  
Fax:  
Contact Person: Customer Service  
E-mail: bd\_anz@bd.com

**Emergency telephone number:** ChemTrec New Zealand: +(64)-98010034

## 2. Hazard(s) identification

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001

Classified according to NZS 5433:1999, UN, IMDG, and IATA.

### Classification of the hazardous chemical:

Not classified

### Label elements, including precautionary statements

**Hazard symbol(s):** No symbol

**Signal Word:** Not available.

**Hazard Statement(s):** Not applicable

**Precautionary statement(s):**

**Other hazards which do not result in GHS classification:** None.

**Supplemental label information** None.

### 3. Composition/information on ingredients

#### Mixtures

**Composition Comments:** The components are not hazardous or are below required disclosure limits.

### 4. First-aid measures

**General information:** Get medical attention if symptoms occur.

#### Description of necessary first-aid measures

**Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if symptoms persist.

**Skin Contact:** Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

**Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.

**Personal Protection for First-aid Responders:** No data available.

#### Symptoms caused by exposure

**Symptoms:** Symptoms may be delayed.

**Hazards:** May cause an allergic skin reaction.

#### Medical attention and special treatment

##### Treatment

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

### 5. Fire-fighting measures

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

**Means of fire extinguishing**  
**Suitable extinguishing media** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Hazchem Code:** No data available.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

**For non-emergency personnel:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

**For emergency responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Environmental Precautions:** Avoid release to the environment.

**Methods and material for containment and cleaning up:** Stop leak if possible without any risk. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. Absorb spillage with suitable absorbent material. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

### 7. Handling and storage

**Precautions for safe handling:** Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities:** Store in tightly closed original container in a dry, cool and well-ventilated place.

### 8. Exposure controls/personal protection

#### Control Parameters

##### Occupational Exposure Limits

None of the components have assigned exposure limits.

##### Biological Limit Values

None of the components have assigned exposure limits.

##### Appropriate Engineering Controls:

Adequate ventilation should be provided whenever the material is heated or mists are generated.

### Individual protection measures, such as personal protective equipment

<b>General information:</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
<b>Eye/face protection:</b>	Wear safety glasses with side shields (or goggles).
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Use suitable protective gloves if risk of skin contact.
<b>Other:</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Respiratory Protection:</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
<b>Hygiene measures:</b>	Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

### 9. Physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	According to product specification.
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	Not applicable
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.

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<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

#### 10. Stability and reactivity

<b>Reactivity:</b>	Stable
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.
<b>Other information:</b>	Stable under normal temperature conditions and recommended use.

#### 11. Toxicological information

**General information:** May cause allergic skin reaction based on human experience.

##### Information on likely routes of exposure

<b>Inhalation:</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin Contact:</b>	Prolonged or repeated contact may cause skin sensitization in susceptible individuals.
<b>Eye contact:</b>	Avoid contact with eyes.
<b>Ingestion:</b>	Ingestion may cause irritation and malaise.

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

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

## Information on toxicological effects

### Acute toxicity

#### Oral

**Product:** Not classified for acute toxicity based on available data.

#### Dermal

**Product:** Not classified for acute toxicity based on available data.

#### Inhalation

**Product:** Not classified for acute toxicity based on available data.

### Repeated dose toxicity

**Product:** No data available.

### Skin irritation and corrosion

**Product:** No data available.

### Serious Eye Damage/Eye Irritation

**Product:** No data available.

### Respiratory or Skin Sensitization

**Product:** No data available.

### Carcinogenicity

**Product:** No data available.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

### Germ Cell Mutagenicity

#### In vitro

**Product:** No data available.

#### In vivo

**Product:** No data available.

### Reproductive toxicity

**Product:** No data available.

### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**12. Ecological information**

**Ecotoxicity**

**Acute hazards to the aquatic environment**

**Fish**

**Product:** Harmful to aquatic organisms.

**Aquatic Invertebrates**

**Product:** No data available.

**Chronic hazards to the aquatic environment**

**Fish**

**Product:** Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the environment.

**Aquatic Invertebrates**

**Product:** Expected to be harmful to aquatic organisms.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: No data available.

**Mobility**

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

**13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.



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## Disposal methods

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:** No data available.

## 14. Transport information

### International regulations

**IATA**Not regulated.

**IMDG**Not regulated.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**  
Not applicable

## 15. Regulatory information

**Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001**

**Classified according to NZS 5433:1999, UN, IMDG, and IATA.**

**Ozone Depleting Substances**  
Not Regulated

**New Zealand. CWC. Chemical Weapons (Prohibition) Act 1996 (Schedules of Chemicals 1-3)**  
Not Regulated

### International regulations

**Montreal protocol**  
Not applicable

**Stockholm convention**  
Not applicable

**Rotterdam convention**  
Not applicable

**Kyoto protocol**  
Not applicable

## 16. Other Information

**Issue Date:** 24.04.2020



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**Revision Information:**

**Further Information:** No data available.

**Key abbreviations or acronyms used**

**References:** No data available.

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# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
F53-0096-PR	Extraction tube	No data available

### Other means of identification

SDS number: 088100180890

### Recommended use of the chemical and restrictions on use

**Recommended use:** Laboratory Chemicals

**Recommended restrictions:** None known.

### Supplier's details

#### Supplier

Company Name: Becton Dickinson Ltd.  
Address: 14B George Bourke Drive  
Mt Wellington, Auckland, 1060 New Zealand  
Telephone: 0800 572 468  
Fax:  
Contact Person: Customer Service  
E-mail: bd\_anz@bd.com

**Emergency telephone number:** ChemTrec New Zealand: +(64)-98010034

## 2. Hazard(s) identification

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001

Classified according to NZS 5433:1999, UN, IMDG, and IATA.

### Classification of the hazardous chemical:

#### Health Hazards

Class 6.3: Toxicity – Skin irritant	Category A
Class 6.4: Toxicity – Eye irritant	Category A
Class 6.5: Toxicity – Sensitisation	Category A

#### Environmental Hazards

Class 9.1: Ecotoxicity – Aquatic	Category C
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### Label elements, including precautionary statements

**Hazard symbol(s):**





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<b>Signal Word:</b>	Danger
<b>Hazard Statement(s):</b>	Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life with long lasting effects.
<b>Precautionary statement(s):</b>	
<b>Prevention:</b>	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Avoid release to the environment.
<b>Response:</b>	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water/... If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing.
<b>Disposal:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification:</b>	None.
<b>Supplemental label information</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Concentration*
Proteinase, Tritirachium album serine	No data available.	39450-01-6	30 - 60%
Triton	No data available.	9002-93-1	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**General information:** Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause damage to organs.



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### Description of necessary first-aid measures

<b>Inhalation:</b>	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if any discomfort continues.
<b>Skin Contact:</b>	Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water. Get medical attention if any discomfort continues.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Ingestion:</b>	If swallowed, rinse mouth with water (only if the person is conscious). DO NOT induce vomiting. Get medical attention immediately.
<b>Personal Protection for First-aid Responders:</b>	No data available.

### Symptoms caused by exposure

<b>Symptoms:</b>	Symptoms may be delayed.
<b>Hazards:</b>	Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Harmful in contact with skin. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Medical attention and special treatment

<b>Treatment</b>	Get medical attention if symptoms occur.
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## 5. Fire-fighting measures

<b>General Fire Hazards:</b>	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
<b>Means of fire extinguishing</b>	
<b>Suitable extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media:</b>	Avoid water in straight hose stream; will scatter and spread fire.
<b>Specific hazards arising from the chemical:</b>	Fire or excessive heat may produce hazardous decomposition products.

### Special protective equipment and precautions for firefighters

<b>Special fire fighting procedures:</b>	No unusual fire or explosion hazards noted.
<b>Special protective equipment for fire-fighters:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Hazchem Code:</b>	No data available.



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## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
<b>For non-emergency personnel:</b>	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
<b>For emergency responders:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Environmental Precautions:</b>	Avoid release to the environment.
<b>Methods and material for containment and cleaning up:</b>	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

<b>Precautions for safe handling:</b>	When using do not eat, drink or smoke. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Read and follow manufacturer's recommendations.
<b>Conditions for safe storage, including any incompatibilities:</b>	Store in a cool, dry place. Keep container tightly closed. Keep from contact with oxidizing materials.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

#### Biological Limit Values

None of the components have assigned exposure limits.

#### Appropriate Engineering Controls:

No special requirements under ordinary conditions of use and with adequate ventilation.

### Individual protection measures, such as personal protective equipment

**General information:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

#### Skin Protection

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<b>Hand Protection:</b>	Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.
<b>Other:</b>	Wear a lab coat or similar protective clothing.
<b>Respiratory Protection:</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
<b>Hygiene measures:</b>	Observe good industrial hygiene practices.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	solid
<b>Form:</b>	Solid or Flake
<b>Color:</b>	According to product specification.
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	> 60 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	partly soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

## 10. Stability and reactivity

<b>Reactivity:</b>	Product is not reactive under normal conditions and recommended use.
<b>Chemical Stability:</b>	Material is stable under normal conditions.



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<b>Possibility of hazardous reactions:</b>	Material is stable under normal conditions.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Water reactive material. Metals. Avoid contact with oxidizers or reducing agents. Avoid contact with acids.
<b>Hazardous Decomposition Products:</b>	Stable; however, may decompose if heated.
<b>Other information:</b>	Stable under normal temperature conditions and recommended use.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	Vapors and spray mist may irritate throat and respiratory system and cause coughing. May cause irritation to the respiratory system.
<b>Skin Contact:</b>	Skin irritation.
<b>Eye contact:</b>	Causes eye irritation.
<b>Ingestion:</b>	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

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

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity

<b>Oral Product:</b>	Not classified for acute toxicity based on available data.
<b>Dermal Product:</b>	Not classified for acute toxicity based on available data.
<b>Inhalation Product:</b>	Not classified for acute toxicity based on available data.

<b>Repeated dose toxicity Product:</b>	No data available.
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### Skin irritation and corrosion



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**Product:** No data available.

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**12. Ecological information**

**Ecotoxicity**

**Acute hazards to the aquatic environment**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

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### Chronic hazards to the aquatic environment

**Fish**  
Product: No data available.

**Aquatic Invertebrates**  
Product: No data available.

**Toxicity to Aquatic Plants**  
Product: No data available.

### Persistence and Degradability

**Biodegradation**  
Product: No data available.

**BOD/COD Ratio**  
Product: No data available.

### Bioaccumulative potential

**Bioconcentration Factor (BCF)**  
Product: No data available.

**Partition Coefficient n-octanol / water (log Kow)**  
Product: Log Kow: No data available.

### Mobility

**Mobility in soil:** No data available.

### Known or predicted distribution to environmental compartments

Proteinase, Tritirachium No data available.

album serine

Triton No data available.

**Other adverse effects:** None known.

## 13. Disposal considerations

**General information:** This material and its container must be disposed of as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

### Disposal methods

**Disposal instructions:** No data available.

**Contaminated Packaging:** No data available.

## 14. Transport information

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### International regulations

**IATA** Not regulated.

**IMDG** Not regulated.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**  
Not applicable

### 15. Regulatory information

**Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001**

**Classified according to NZS 5433:1999, UN, IMDG, and IATA.**

**Ozone Depleting Substances**  
Not Regulated

**New Zealand. CWC. Chemical Weapons (Prohibition) Act 1996 (Schedules of Chemicals 1-3)**  
Not Regulated

### International regulations

**Montreal protocol**  
Not applicable

**Stockholm convention**  
Not applicable

**Rotterdam convention**  
Not applicable

**Kyoto protocol**  
Not applicable

### 16. Other Information

**Issue Date:** 04.12.2020

**Revision Information:**

**Further Information:** No data available.

### Key abbreviations or acronyms used

**References:** European Chemicals Agency (ECHA): Information on Chemicals.



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# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
F53-0099-PR	Master mix	No data available

### Other means of identification

SDS number: 088100180893

### Recommended use of the chemical and restrictions on use

**Recommended use:** Laboratory Chemicals

**Recommended restrictions:** None known.

### Supplier's details

#### Supplier

Company Name: Becton Dickinson Ltd.  
Address: 14B George Bourke Drive  
Mt Wellington, Auckland, 1060 New Zealand  
Telephone: 0800 572 468  
Fax:  
Contact Person: Customer Service  
E-mail: bd\_anz@bd.com

**Emergency telephone number:** ChemTrec New Zealand: +(64)-98010034

## 2. Hazard(s) identification

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001

Classified according to NZS 5433:1999, UN, IMDG, and IATA.

### Classification of the hazardous chemical:

Not classified

### Label elements, including precautionary statements

**Hazard symbol(s):** No symbol

**Signal Word:** Not available.

**Hazard Statement(s):** Not applicable

**Precautionary statement(s):**

**Other hazards which do not result in GHS classification:** None.

**Supplemental label information** None.

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www.bd.com**3. Composition/information on ingredients****Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Concentration*
1,2,3-Propanetriol	No data available.	56-81-5	10 - 30%
Poly(oxy-1,2-ethanediyl), $\alpha$ -[(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy-	No data available.	9036-19-5	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**4. First-aid measures**

**General information:** Get medical attention if symptoms occur.

**Description of necessary first-aid measures**

**Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

**Skin Contact:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Ingestion:** Get medical attention if symptoms occur.

**Personal Protection for First-aid Responders:** No data available.

**Symptoms caused by exposure**

**Symptoms:** No data available.

**Hazards:** No data available.

**Medical attention and special treatment**

**Treatment** No data available.

**5. Fire-fighting measures**

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

**Means of fire extinguishing**  
**Suitable extinguishing media** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.



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**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** None known.

#### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Hazchem Code:** No data available.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** No special precautionary health measures should be needed under anticipated conditions of use.

**For non-emergency personnel:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

**For emergency responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Environmental Precautions:** Avoid release to the environment.

**Methods and material for containment and cleaning up:** No specific clean-up procedure noted.

#### 7. Handling and storage

**Precautions for safe handling:** When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry place. Keep container tightly closed.

#### 8. Exposure controls/personal protection

##### Control Parameters

##### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
1,2,3-Propanetriol	TWA	10 mg/m <sup>3</sup>	New Zealand. WES. (Workplace Exposure Standards), as amended (06 2016)



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### Biological Limit Values

None of the components have assigned exposure limits.

### Appropriate Engineering Controls:

No special requirements under ordinary conditions of use and with adequate ventilation.

### Individual protection measures, such as personal protective equipment

#### General information:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

#### Eye/face protection:

Wear safety glasses with side shields (or goggles).

#### Skin Protection

##### Hand Protection:

Chemical resistant gloves

##### Other:

Wear a lab coat or similar protective clothing.

#### Respiratory Protection:

Respiratory protection not required.

#### Hygiene measures:

Observe good industrial hygiene practices.

## 9. Physical and chemical properties

### Appearance

#### Physical state:

solid

#### Form:

solid

#### Color:

According to product specification.

#### Odor:

Characteristic

#### Odor threshold:

No data available.

#### pH:

No data available.

#### Melting point/freezing point:

No data available.

#### Initial boiling point and boiling range:

No data available.

#### Flash Point:

Not applicable

#### Evaporation rate:

No data available.

#### Flammability (solid, gas):

No data available.

#### Upper/lower limit on flammability or explosive limits

##### Flammability limit - upper (%):

No data available.

##### Flammability limit - lower (%):

No data available.

##### Explosive limit - upper:

No data available.

##### Explosive limit - lower:

No data available.

#### Vapor pressure:

No data available.

#### Vapor density:

No data available.

#### Relative density:

No data available.

#### Solubility(ies)

##### Solubility in water:

Completely Soluble

##### Solubility (other):

No data available.

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<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

#### 10. Stability and reactivity

<b>Reactivity:</b>	Stable under normal temperature conditions and recommended use.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Not known.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizers.
<b>Hazardous Decomposition Products:</b>	Not known.
<b>Other information:</b>	Stable under normal temperature conditions and recommended use.

#### 11. Toxicological information

**General information:** No data on possible toxicity effects have been found.

##### Information on likely routes of exposure

<b>Inhalation:</b>	Limited inhalation hazard at normal work temperatures.
<b>Skin Contact:</b>	Negligible irritation to skin at ambient temperatures.
<b>Eye contact:</b>	Do not get in eyes.
<b>Ingestion:</b>	No harmful effects expected in amounts likely to be ingested by accident.

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

<b>Inhalation:</b>	No specific symptoms noted.
<b>Skin Contact:</b>	No specific symptoms noted.
<b>Eye contact:</b>	No specific symptoms noted.
<b>Ingestion:</b>	No specific symptoms noted.

##### Information on toxicological effects

###### Acute toxicity

<b>Oral Product:</b>	Not classified for acute toxicity based on available data.
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**Dermal**

**Product:**

Not classified for acute toxicity based on available data.

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Repeated dose toxicity**

**Product:**

No data available.

**Specified substance(s):**

1,2,3-Propanetriol

LOAEL (Rat(Female, Male), Oral, 90 d): 200,000 ppm(m) Oral Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation): 167 mg/m<sup>3</sup> Inhalation Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation): 1,000 mg/m<sup>3</sup> Inhalation Experimental result, Supporting study

**Skin irritation and corrosion**

**Product:**

No data available.

**Serious Eye Damage/Eye Irritation**

**Product:**

No data available.

**Specified substance(s):**

1,2,3-Propanetriol

in vivo (Rabbit, 24 hrs): Not irritating Expert judgment

**Respiratory or Skin Sensitization**

**Product:**

No data available.

**Carcinogenicity**

**Product:**

No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:**

No data available.

**In vivo**

**Product:**

No data available.

**Reproductive toxicity**

**Product:**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:**

No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

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**Product:** No data available.

**Aspiration Hazard Product:** No data available.

**Other effects:** None known.

## 12. Ecological information

### Ecotoxicity

#### Acute hazards to the aquatic environment

##### Fish

**Product:** No negative effects on the aquatic environment are known.

##### Aquatic Invertebrates

**Product:** No negative effects on the aquatic environment are known.

#### Chronic hazards to the aquatic environment

##### Fish

**Product:** No negative effects on the aquatic environment are known.

##### Aquatic Invertebrates

**Product:** No negative effects on the aquatic environment are known.

##### Toxicity to Aquatic Plants

**Product:** No negative effects on the aquatic environment are known.

### Persistence and Degradability

##### Biodegradation

**Product:** Expected to be readily biodegradable.

##### BOD/COD Ratio

**Product:** No data available.

### Bioaccumulative potential

##### Bioconcentration Factor (BCF)

**Product:** No data available.

##### Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: No data available.

### Mobility

**Mobility in soil:** No data available.

### Known or predicted distribution to environmental compartments

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1,2,3-Propanetriol No data available.  
Poly(oxy-1,2-ethanediyl),  $\alpha$ - No data available.  
[(1,1,3,3-  
tetramethylbutyl)phenyl]- $\omega$ -  
hydroxy-

**Other adverse effects:** The product is not expected to be hazardous to the environment.

### 13. Disposal considerations

**General information:** Dispose of waste and residues in accordance with local authority requirements.

#### Disposal methods

**Disposal instructions:** No data available.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### International regulations

**IATA** Not regulated.

**IMDG** Not regulated.

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

Not applicable

### 15. Regulatory information

**Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001**

**Classified according to NZS 5433:1999, UN, IMDG, and IATA.**

#### Ozone Depleting Substances

Not Regulated

#### New Zealand. CWC. Chemical Weapons (Prohibition) Act 1996 (Schedules of Chemicals 1-3)

Not Regulated

#### International regulations

##### Montreal protocol

Not applicable

##### Stockholm convention

Not applicable

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**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**16. Other Information**

**Issue Date:** 02.12.2020

**Revision Information:** No data available.

**Further Information:** No data available.

**Key abbreviations or acronyms used**

**References:** No data available.

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## 1. Identification of the substance or mixture and of the supplier

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
700013749	Sample buffer tube	No data available

### Other means of identification

SDS number: 088100285687

### Recommended use of the chemical and restrictions on use

**Recommended use:** Laboratory Chemicals

**Recommended restrictions:** None known.

### Supplier's details

#### Supplier

Company Name: Becton Dickinson Ltd.  
Address: 14B George Bourke Drive  
Mt Wellington, Auckland, 1060 New Zealand  
Telephone: 0800 572 468  
Fax:  
Contact Person: Customer Service  
E-mail: bd\_anz@bd.com

**Emergency telephone number:** ChemTrec New Zealand: +(64)-98010034

## 2. Hazard(s) identification

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001

Classified according to NZS 5433:1999, UN, IMDG, and IATA.

### Classification of the hazardous chemical:

#### Health Hazards

Class 6.4: Toxicity – Eye irritant Category A

Class 6.8: Toxicity –  
Reproductive/developmental Category A

#### Environmental Hazards

Class 9.1: Ecotoxicity – Aquatic Category C

### Label elements, including precautionary statements

#### Hazard symbol(s):





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<b>Signal Word:</b>	Danger
<b>Hazard Statement(s):</b>	Causes serious eye irritation. May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.
<b>Precautionary statement(s):</b>	
<b>Prevention:</b>	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.
<b>Response:</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.
<b>Storage:</b>	Store locked up.
<b>Disposal:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification:</b>	None.
<b>Supplemental label information</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Concentration*
Boric acid (H3BO3)	No data available.	10043-35-3	1 - 5%
Triton	No data available.	9002-93-1	0.5 - 1.5%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**General information:** Get medical attention if symptoms occur.

#### Description of necessary first-aid measures

**Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if symptoms persist.



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<b>Skin Contact:</b>	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.
<b>Ingestion:</b>	If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.
<b>Personal Protection for First-aid Responders:</b>	No data available.
<b>Symptoms caused by exposure</b>	
<b>Symptoms:</b>	Symptoms may be delayed.
<b>Hazards:</b>	May cause an allergic skin reaction.
<b>Medical attention and special treatment</b>	
<b>Treatment</b>	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

## 5. Fire-fighting measures

<b>General Fire Hazards:</b>	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
<b>Means of fire extinguishing</b>	
<b>Suitable extinguishing media</b>	Water spray, fog, CO <sub>2</sub> , dry chemical, or alcohol resistant foam.
<b>Unsuitable extinguishing media:</b>	Avoid water in straight hose stream; will scatter and spread fire.
<b>Specific hazards arising from the chemical:</b>	Fire or excessive heat may produce hazardous decomposition products.
<b>Special protective equipment and precautions for firefighters</b>	
<b>Special fire fighting procedures:</b>	No unusual fire or explosion hazards noted.
<b>Special protective equipment for fire-fighters:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Hazchem Code:</b>	No data available.



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**6. Accidental release measures**

- Personal precautions, protective equipment and emergency procedures:** Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.
- For non-emergency personnel:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
- For emergency responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
- Environmental Precautions:** Avoid release to the environment.
- Methods and material for containment and cleaning up:** Stop leak if possible without any risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. Report spills as required to appropriate authorities. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

**7. Handling and storage**

- Precautions for safe handling:** Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
- Conditions for safe storage, including any incompatibilities:** Store in tightly closed original container in a dry, cool and well-ventilated place.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
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**Biological Limit Values**

None of the components have assigned exposure limits.

**Appropriate Engineering Controls:**

Adequate ventilation should be provided whenever the material is heated or mists are generated.

**Individual protection measures, such as personal protective equipment**

**General information:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

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### Skin Protection

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

**Other:** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Hygiene measures:** Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

## 9. Physical and chemical properties

### Appearance

**Physical state:** liquid

**Form:** liquid

**Color:** According to product specification.

**Odor:** Characteristic

**Odor threshold:** No data available.

**pH:** No data available.

**Melting point/freezing point:** No data available.

**Initial boiling point and boiling range:** No data available.

**Flash Point:** No data available.

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

### Upper/lower limit on flammability or explosive limits

**Flammability limit - upper (%):** No data available.

**Flammability limit - lower (%):** No data available.

**Explosive limit - upper:** No data available.

**Explosive limit - lower:** No data available.

**Vapor pressure:** No data available.

**Vapor density:** No data available.

**Relative density:** No data available.

### Solubility(ies)

**Solubility in water:** Completely Soluble

**Solubility (other):** No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity:** No data available.



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## 10. Stability and reactivity

<b>Reactivity:</b>	Stable
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.
<b>Other information:</b>	Stable under normal temperature conditions and recommended use.

## 11. Toxicological information

**General information:** May cause allergic skin reaction based on human experience.

### Information on likely routes of exposure

<b>Inhalation:</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin Contact:</b>	Prolonged or repeated contact may cause skin sensitization in susceptible individuals.
<b>Eye contact:</b>	Avoid contact with eyes.
<b>Ingestion:</b>	Ingestion may cause irritation and malaise.

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

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity

<b>Oral Product:</b>	ATEmix (): 178,253.12 mg/kg
<b>Dermal Product:</b>	ATEmix ( ): 178,253.12 mg/kg



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**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity**

**Product:** No data available.

**Skin irritation and corrosion**

**Product:** No data available.

**Specified substance(s):**

Boric acid (H3BO3) in vivo (Guinea pig): Not irritant Experimental result, Supporting study  
in vivo (Rabbit): Not classifiable Experimental result, Key study  
in vivo (Rabbit): Not irritant Experimental result, Supporting study  
in vivo (Rabbit): Not irritant Experimental result, Supporting study  
in vivo (Rabbit): not corrosive Experimental result, Supporting study

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

## 12. Ecological information

### Ecotoxicity

#### Acute hazards to the aquatic environment

**Fish**  
**Product:** Toxic to aquatic organisms.

**Aquatic Invertebrates**  
**Product:** Toxic to aquatic organisms.

#### Chronic hazards to the aquatic environment

**Fish**  
**Product:** Toxic to aquatic organisms.

**Aquatic Invertebrates**  
**Product:** Toxic to aquatic organisms.

**Toxicity to Aquatic Plants**  
**Product:** Toxic to aquatic organisms.

### Persistence and Degradability

**Biodegradation**  
**Product:** No data available.

**BOD/COD Ratio**  
**Product:** No data available.

### Bioaccumulative potential

**Bioconcentration Factor (BCF)**  
**Product:** No data available.

**Specified substance(s):**  
Boric acid (H3BO3) Oncorhynchus nerka, Bioconcentration Factor (BCF): 0.52 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study  
Various, Bioconcentration Factor (BCF): 12 - 155 Terrestrial Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study  
Bioconcentration Factor (BCF): 9 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study  
Hordeum vulgare L., Bioconcentration Factor (BCF): 49 Terrestrial Experimental result, Weight of Evidence study  
Oncorhynchus tshawytscha, Bioconcentration Factor (BCF): < 0.1 Aquatic sediment Experimental result, Weight of Evidence study

**Partition Coefficient n-octanol / water (log Kow)**  
**Product:** No data available.



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#### Mobility

**Mobility in soil:** No data available.

#### Known or predicted distribution to environmental compartments

Boric acid (H<sub>3</sub>BO<sub>3</sub>) No data available.

Triton No data available.

**Other adverse effects:** No data available.

### 13. Disposal considerations

**General information:** Dispose of waste and residues in accordance with local authority requirements.

#### Disposal methods

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### International regulations

**IATA**Not regulated.

**IMDG**Not regulated.

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

Not applicable

### 15. Regulatory information

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001

Classified according to NZS 5433:1999, UN, IMDG, and IATA.

#### Ozone Depleting Substances

Not Regulated

#### New Zealand. CWC. Chemical Weapons (Prohibition) Act 1996 (Schedules of Chemicals 1-3)

Not Regulated

#### International regulations

##### Montreal protocol

Not applicable

##### Stockholm convention



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Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**16. Other Information**

**Issue Date:** 04.12.2020

**Revision Information:**

**Further Information:** No data available.

**Key abbreviations or acronyms used**

**References:** No data available.

**Disclaimer:**  
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