Date: 21.11.2022

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USA
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Kit Components

Kit Product No.	Kit Product Description
442819	BD MAX ™ ExK™ DNA-2

Kit Component(s)	Kit Component(s) Description
F52-0064-PR	Extraction Tube
700013756	Sample Buffer tube
F11-0223-PR	Elution Buffer
F11-0212-PR	Neutralization buffer
F11-0210-PR	Wash buffer

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)
F52-0064-PR	Extraction Tube	No data available

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
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

GHS classification

Health Hazards

Acute toxicity (Dermal)	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Respiratory sensitizer	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 3 (Respiratory tract irritation.)

Label Elements

Pictograms:

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Signal Word: Danger

Hazard Statement:
Toxic in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.

Precautionary Statements

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection.

Response: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER or doctor/ physician if you feel unwell. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. 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.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Proteinase, Tritirachium album serine	No data available.	39450-01-6	15 - 40%
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.	155773-72-1	10 - 30%

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

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The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Toxic in contact with skin. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Inhalation: Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if any discomfort continues.

Skin Contact: 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.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

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.

Most important symptoms and effects, both acute and delayed

Symptoms: Symptoms may be delayed.

Hazards: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Toxic in contact with skin. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

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.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

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

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Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	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.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams.
Environmental Precautions:	Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	No special requirements under ordinary conditions of use and with adequate ventilation.
Safe handling advice:	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.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Store in a cool, dry place. Keep container tightly closed. Keep from contact with oxidizing materials.
Safe packaging materials:	No data available.

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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Biological Limit Values
No biological exposure limits noted for the ingredient(s).

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

Hand Protection: Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.

Other: Wear a lab coat or similar protective clothing.

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: Observe good industrial hygiene practices.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	solid
Form:	solid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
Melting Point:	No data available.
Boiling Point:	No data available.
Flammability:	No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	Not applicable

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Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	Not determined.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Vapor density (air=1):	No data available.

Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

Other information

Metal Corrosion:	Non-corrosive per US Department of Transportation testing protocol.

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Stable
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.

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Incompatible Materials:	Water reactive material. Metals. Avoid contact with oxidizers or reducing agents. Avoid contact with acids.
Hazardous Decomposition Products:	Stable; however, may decompose if heated.

11. Toxicological information

Information on toxicological effects

Inhalation:	Vapors and spray mist may irritate throat and respiratory system and cause coughing. May cause irritation to the respiratory system. May cause respiratory allergy.
Skin Contact:	Skin irritation. Toxic in contact with skin.
Eye contact:	Causes eye irritation.
Ingestion:	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	Not classified for acute toxicity based on available data.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Dermal

Product:	ATEmix: 922.94 mg/kg Toxic in contact with skin.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Inhalation

Product:	Not classified for acute toxicity based on available data.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer,	No data available.

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ethylenediamine core, generation 0.0 solution

Repeated dose toxicity

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Respiratory or Skin Sensitization

Product:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Carcinogenicity

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

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Germ Cell Mutagenicity

In vitro

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

In vivo

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	Category 3 with respiratory tract irritation. May cause respiratory irritation.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.

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PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Information on health hazards

Other hazards
Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Chronic hazards to the aquatic environment:

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Fish

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

BOD/COD Ratio

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.

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PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Mobility in soil:

Product	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
Proteinase, Tritirachium album serine	No data available.
PAMAM dendrimer, ethylenediamine core, generation 0.0 solution	No data available.

Other adverse effects:

Other hazards

Product:	None known.

13. Disposal considerations

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General information:	The solid and liquid waste should be handled according to their nature and degree of hazardousness. It is the responsibility of each laboratory to adequately treat and dispose the solid waste (or have them treated and disposed of) in accordance with any applicable regulations. Avoid release to the environment.
Disposal methods:	Do not discharge liquid waste down the drain. Collect and dispose of all used and unused reagents and other contaminated disposable materials following procedures for biohazardous waste.
Contaminated Packaging:	It is the responsibility of each laboratory to adequately treat and dispose the solid waste (or have them treated and disposed of) in accordance with any applicable regulations.

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:	09.08.2022
Revision Date:	No data available.
Version #:	1.0
Further Information:	No data available.
References:	European Chemicals Agency (ECHA): Information on Chemicals.
Disclaimer	Disclaimer: The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.

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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)
700013756	Sample Buffer tube	No data available

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
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

GHS classification

Health Hazards

Serious Eye Damage/Eye Irritation	Category 2
Toxic to reproduction	Category 1

Label Elements

Pictograms:

Signal Word: Danger

Hazard Statement: Causes serious eye irritation.
May damage fertility. May damage the unborn child.

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Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response: 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.

Storage: Store locked up.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.	9036-19-5	1 - 5%
Boric acid (H3BO3)	No data available.	10043-35-3	0.1 - 1%

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

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Causes serious eye irritation. May damage fertility. May damage the unborn child.

Inhalation: Get medical attention if any discomfort continues.

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

Eye contact: Important! Immediately rinse with water for at least 15 minutes. Get medical attention immediately.

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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.

Most important symptoms and effects, both acute and delayed

Symptoms:	Symptoms may be delayed.
Hazards:	Causes serious eye irritation. May damage fertility. May damage the unborn child.

Indication of immediate medical attention and special treatment needed

Treatment:	Get immediate 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.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Contact local authorities in case of spillage to drain/aquatic environment.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams.

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Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Adequate ventilation should be provided whenever the material is heated or mists are generated.

Safe handling advice: Avoid contact with eyes. Eye wash facilities and emergency shower must be available when handling this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store in tightly closed original container in a dry, cool and well-ventilated place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Biological Limit Values
No biological exposure limits noted for the ingredient(s).

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 and protective equipment to remove contaminants.

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.

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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: Avoid contact with eyes. Wash hands after contact. Observe good industrial hygiene practices.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flammability:	No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.

Viscosity

Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.

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Particle characteristics

Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	None under normal conditions.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed.

11. Toxicological information

Information on toxicological effects

Inhalation:	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin Contact:	Negligible irritation to skin at ambient temperatures.
Eye contact:	Irritating to eyes.
Ingestion:	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix: 48,402.71 mg/kg
Components:	

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Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	LD 50 (Rat): 4,190 mg/kg
Boric acid (H3BO3)	LD 50 (Rat): 2,600 mg/kg Key study

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	LD 50 (Rabbit): > 2,000 mg/kg

Inhalation

Product:	Not classified for acute toxicity based on available data.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	LC 50 (Rat, 5 h): 2.03 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 2.12 mg/l Dust; 1 = reliable without restrictions; Dust

Repeated dose toxicity

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	LOAEL (Mouse(Female, Male), Oral, 13 - 16 Weeks): > 811 mg/kg Experimental result, Supporting study Oral NOAEL (Mouse(Female, Male), Oral, 13 - 16 Weeks): 194 mg/kg Experimental result, Supporting study Oral NOAEL (Mouse(Female, Male), Oral, 13 - 16 Weeks): 1,200 ppm(m) Experimental result, Supporting study Oral NOAEL (Mouse(Female, Male), Oral, 13 - 16 Weeks): 34 mg/kg Experimental result, Supporting study Oral

Skin Corrosion/Irritation

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

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Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

In vivo

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Reproductive toxicity

Product:	No data available.
Components:	

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Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Information on health hazards

Other hazards

Product:	No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	No negative effects on the aquatic environment are known.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	LC 50 (Pimephales promelas, 96 h): 79.7 mg/l Read-across from supporting substance (structural analogue or surrogate), Weight of

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	Evidence study LC 50 (Limanda limanda, 96 h): 74 mg/l Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study

Aquatic Invertebrates

Product:	No negative effects on the aquatic environment are known.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	NOAEL (Litopenaeus vannemei, 96 h): 103 mg/l Experimental result, Weight of Evidence study experimental result LC 50 (Litopenaeus vannemei, 96 h): 130 mg/l Experimental result, Weight of Evidence study experimental result

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No negative effects on the aquatic environment are known.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Aquatic Invertebrates

Product:	No negative effects on the aquatic environment are known.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	LC 10 (Brachionus calyciflorus, 72 h): 26.6 mg/l (Static) Experimental

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result, Weight of Evidence study experimental result
EC 10 (Daphnia magna, 21 d): 17.7 mg/l (semi-static) Experimental result, Weight of Evidence study experimental result
NOAEL (Americamysis bahia, 28 d): 33.1 mg/l (flow-through) Experimental result, Weight of Evidence study experimental result
LC 10 (Chironomus riparius, 28 d): 52.1 mg/l (Static) Experimental result, Weight of Evidence study experimental result
LOAEL (Americamysis bahia, 28 d): 31.6 mg/l (flow-through) Experimental result, Weight of Evidence study experimental result

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

BOD/COD Ratio

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	

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Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	Bioconcentration Factor (BCF): 121 Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study Aquatic sediment Hordeum vulgare L., Bioconcentration Factor (BCF): 44 Experimental result, Weight of Evidence study Terrestrial Bioconcentration Factor (BCF): 13 Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study Aquatic sediment Bioconcentration Factor (BCF): 23 Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study Aquatic sediment Hordeum vulgare L., Bioconcentration Factor (BCF): 2.1 Experimental result, Weight of Evidence study Terrestrial

Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Mobility in soil:

Product	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	No data available.
Boric acid (H3BO3)	No data available.

Other adverse effects:

Other hazards

Product:	No data available.

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13. Disposal considerations

General information:	The solid and liquid waste should be handled according to their nature and degree of hazardousness. It is the responsibility of each laboratory to adequately treat and dispose the solid waste (or have them treated and disposed of) in accordance with any applicable regulations. Avoid release to the environment.
Disposal methods:	Do not discharge liquid waste down the drain. Collect and dispose of all used and unused reagents and other contaminated disposable materials following procedures for biohazardous waste.
Contaminated Packaging:	It is the responsibility of each laboratory to adequately treat and dispose the solid waste (or have them treated and disposed of) in accordance with any applicable regulations.

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

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Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

16.Other Information

Issue Date:	12.07.2022
Revision Date:	No data available.
Version #:	1.0
Further Information:	No data available.
References:	No data available.
Disclaimer	Disclaimer: The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.

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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

Recommended use of the chemical and restrictions on use

Recommended use: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.
Recommended restrictions: None known.

Supplier's details

Supplier

Company Name:	Becton Dickinson Ltd.
Address:	14B George Bourke Drive Mt Wellington, Auckland, 1060
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

GHS classification

Health Hazards

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Pictograms:

Signal Word: Danger

Hazard Statement: Causes severe skin burns and eye damage.

Precautionary Statements

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Prevention:	Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately 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.
Storage:	Store locked up.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
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.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information:	Causes severe skin burns and eye damage. Get immediate medical advice/attention.
Inhalation:	Move to fresh air. Get medical attention if any discomfort continues.
Skin Contact:	Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Get medical attention promptly if symptoms occur after washing.

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Eye contact:	Important! Immediately rinse with water for 60 minutes. Get medical attention immediately. Continue to rinse.
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.

Most important symptoms and effects, both acute and delayed

Symptoms:	Symptoms may be delayed.
Hazards:	Causes severe skin burns and eye damage.

Indication of immediate medical attention and special treatment needed

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.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO2) to extinguish flames.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for fire-fighters

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.

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.

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Accidental release measures:	No data available.
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.
Environmental Precautions:	Do not contaminate water sources or sewer.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	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.
Safe handling advice:	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.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	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.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

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.

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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
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	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

Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	Not applicable
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	12.2 - 12.4
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	Not determined.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-	No data available.

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octanol/water):
Vapor pressure: No data available.
Relative density: No data available.
Density: No data available.
Bulk density: No data available.
Relative vapor density: No data available.

Particle characteristics

Particle Size: No data available.
Particle Size Distribution: No data available.
Specific surface area: No data available.

Surface charge/Zeta potential: No data available.

Shape: No data available.
Crystallinity: No data available.
Surface treatment: No data available.

Other information

Metal Corrosion: Non-corrosive per US Department of Transportation testing protocol.

10. Stability and reactivity

Reactivity: Material is stable under normal conditions.

Chemical Stability: No data available.

Possibility of hazardous reactions: Stable; however, may decompose if heated.

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight. Do not freeze.

Incompatible Materials: Avoid contact with oxidizers or reducing agents.

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

11. Toxicological information

Information on toxicological effects

Inhalation: No data available.

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Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

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

Components:

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

Dermal

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

Components:

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

Inhalation

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

Components:

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

Repeated dose toxicity

Product: No data available.

Components:

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

Skin Corrosion/Irritation

Product: No data available.

Components:

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

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

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

Respiratory or Skin Sensitization

Product: No data available.

Components:

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

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Carcinogenicity

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

In vivo

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Information on health hazards

Other hazards

Product:	No data available.

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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	Not expected to be harmful to aquatic organisms.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Sodium hydroxide (Na(OH))	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Sodium hydroxide	No data available.

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(Na(OH))

Persistence and Degradability

Biodegradation
Product: No data available.
Components:
Sodium hydroxide (Na(OH)) No data available.

BOD/COD Ratio
Product: No data available.
Components:
Sodium hydroxide (Na(OH)) No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: No data available.
Components:
Sodium hydroxide (Na(OH)) No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.
Components:
Sodium hydroxide (Na(OH)) No data available.

Mobility in soil:

Product No data available.
Components:
Sodium hydroxide (Na(OH)) No data available.

Results of PBT and vPvB assessment:

Product No data available.
Components:
Sodium hydroxide (Na(OH)) No data available.

Other adverse effects:

Other hazards
Product: No data available.

13. Disposal considerations

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General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	This material and/or its container must be disposed of as hazardous waste.
Contaminated Packaging:	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.

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

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Kyoto protocol
Not applicable

16.Other Information

Issue Date:	27.10.2022
Revision Date:	No data available.No data available.
Version #:	1.2
Further Information:	No data available.
References:	No data available.
Disclaimer	Disclaimer: The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.

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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)
F11-0212-PR	Neutralization buffer	No data available

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
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

GHS classification

Not classified

Label Elements
The substance or product does not require a hazard warning label in accordance with the GHS directive.

Pictograms: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements Not applicable

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

3. Composition/information on ingredients

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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
1,2-PROPANEDIOL	No data available.	57-55-6	<0.1%
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Kathon 886	55965-84-9	<0.1%

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

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Get medical attention if symptoms occur.

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.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

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.

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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media:	None known.
Special hazards arising from the substance or mixture:	None known.

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	No special precautionary health measures should be needed under anticipated conditions of use.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	No specific clean-up procedure noted.
Environmental Precautions:	Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	No special requirements under ordinary conditions of use and with adequate ventilation.
Safe handling advice:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Store in a cool, dry place. Keep container tightly closed.
Safe packaging materials:	No data available.

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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Biological Limit Values
No biological exposure limits noted for the ingredient(s).

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

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flammability:	No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	Not applicable
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.

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pH:	No data available.
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	Not determined.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.

Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

Other information	
Metal Corrosion:	Non-corrosive per US Department of Transportation testing protocol.

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Not known.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Strong oxidizers.

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Hazardous Decomposition Products:	Not known.

11. Toxicological information

Information on toxicological effects

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	Not classified for acute toxicity based on available data.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	LD 50 (Rat): 66 mg/kg Key study LD 50 (Rat): 200 mg/kg Key study

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Inhalation

Product:	Not classified for acute toxicity based on available data.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-	LC 50 (Rat, 4 h): 0.171 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 0.33 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 1.23 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 0.81 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 2.36 mg/l Aerosol;

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isothiazolin-3-one [EC No 220-239-6] (3:1)	1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 810 mg/m3 Aerosol; 1 = reliable without restrictions; Aerosol

Repeated dose toxicity

Product:	No data available.
Components:	
1,2-PROPANEDIOL	NOAEL (Rat(Male), Inhalation): 2,200 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation): 160 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(female), Inhalation): 1,000 mg/m3 Inhalation Experimental result, Key study
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	

Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Causes serious eye damage.

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.

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CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	May cause an allergic skin reaction.

Carcinogenicity

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

In vivo

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.

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CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Information on health hazards

Other hazards

Product:	No data available.

12. Ecological information

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Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
1,2-PROPANEDIOL	LC 50 (Pimephales promelas, 96 h): 54,900 mg/l Experimental result, Supporting study LC 50 (Pimephales promelas, 96 h): 46,500 mg/l Experimental result, Supporting study LC 50 (Pimephales promelas, 96 h): 51,400 mg/l Experimental result, Supporting study LC 50 (Psetta maxima, 96 h): > 10,000 mg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 96 h): 42,000 mg/l Experimental result, Supporting study
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
1,2-PROPANEDIOL	LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 1,020 mg/l Mortality EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l Intoxication LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 4,416 - 6,011 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 12,899 - 17,561 mg/l Mortality LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

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Toxicity to microorganisms

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Toxicity to microorganisms

Product:	No data available.

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Components:

1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

1,2-PROPANEDIOL	90.6 % (64 d) Detected in water. Experimental result, Key study 72 % (28 d) Detected in water. Experimental result, Supporting study 97 % (28 d) Detected in water. Experimental result, Supporting study 100 % (28 d) Detected in water. Experimental result, Key study 98 % Soil Experimental result, Key study
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Readily biodegradable

BOD/COD Ratio

Product: No data available.

Components:

1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

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Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.
Components:	
1,2-PROPANEDIOL	Log Kow: -0.92 Log Kow: -1.41 - -0.3 20 °C No Other, Supporting study
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Mobility in soil:

Product	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Not applicable

Other adverse effects:

Other hazards

Product:	No data available.

13. Disposal considerations

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	No data available.

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Contaminated Packaging:	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.

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:	27.10.2022
Revision Date:	No data available.No data available.

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Version #:	1.2
Further Information:	No data available.
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)
F11-0210-PR	Wash buffer	No data available

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
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

GHS classification

Not classified

Label Elements
The substance or product does not require a hazard warning label in accordance with the GHS directive.

Pictograms: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements Not applicable

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

3. Composition/information on ingredients

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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
1,2-PROPANEDIOL	No data available.	57-55-6	<0.1%
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Kathon 886	55965-84-9	<0.1%

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

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Get medical attention if symptoms occur.

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.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

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.

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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media:	None known.
Special hazards arising from the substance or mixture:	None known.

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	No special precautionary health measures should be needed under anticipated conditions of use.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	No specific clean-up procedure noted.
Environmental Precautions:	Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	No special requirements under ordinary conditions of use and with adequate ventilation.
Safe handling advice:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Store in a cool, dry place. Keep container tightly closed.
Safe packaging materials:	No data available.

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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Biological Limit Values
No biological exposure limits noted for the ingredient(s).

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

Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	Not applicable
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.

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pH:	No data available.
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	Not determined.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.

Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

Other information	
Metal Corrosion:	Non-corrosive per US Department of Transportation testing protocol.

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Not known.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Strong oxidizers.

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Hazardous Decomposition Products:	Not known.

11. Toxicological information

Information on toxicological effects

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	Not classified for acute toxicity based on available data.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Toxic if swallowed. LD 50 (Rat): 66 mg/kg Key study LD 50 (Rat): 200 mg/kg Key study

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Toxic in contact with skin.

Inhalation

Product:	Not classified for acute toxicity based on available data.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-	Toxic by inhalation. LC 50 (Rat, 4 h): 0.171 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 0.33 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 1.23 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 0.81 mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 2.36

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isothiazolin-3-one [EC No 220-239-6] (3:1)	mg/l Aerosol; 1 = reliable without restrictions; Aerosol LC 50 (Rat, 4 h): 810 mg/m3 Aerosol; 1 = reliable without restrictions; Aerosol

Repeated dose toxicity

Product:	No data available.
Components:	
1,2-PROPANEDIOL	NOAEL (Rat(Male), Inhalation): 2,200 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation): 160 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(female), Inhalation): 1,000 mg/m3 Inhalation Experimental result, Key study
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	

Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Causes serious eye damage.

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.

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CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	May cause an allergic skin reaction.

Carcinogenicity

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

In vivo

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.

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CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Information on health hazards

Other hazards

Product:	No data available.

12. Ecological information

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Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
1,2-PROPANEDIOL	LC 50 (Pimephales promelas, 96 h): 54,900 mg/l Experimental result, Supporting study LC 50 (Pimephales promelas, 96 h): 46,500 mg/l Experimental result, Supporting study LC 50 (Pimephales promelas, 96 h): 51,400 mg/l Experimental result, Supporting study LC 50 (Psetta maxima, 96 h): > 10,000 mg/l Experimental result, Supporting study NOAEL (Oncorhynchus mykiss, 96 h): 42,000 mg/l Experimental result, Supporting study
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
1,2-PROPANEDIOL	LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 1,020 mg/l Mortality EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l Intoxication LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 4,416 - 6,011 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 12,899 - 17,561 mg/l Mortality LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

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Toxicity to microorganisms

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Toxicity to microorganisms

Product:	No data available.

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Components:

1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

1,2-PROPANEDIOL	90.6 % (64 d) Detected in water. Experimental result, Key study 72 % (28 d) Detected in water. Experimental result, Supporting study 97 % (28 d) Detected in water. Experimental result, Supporting study 100 % (28 d) Detected in water. Experimental result, Key study 98 % Soil Experimental result, Key study
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Readily biodegradable

BOD/COD Ratio

Product: No data available.

Components:

1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

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Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.
Components:	
1,2-PROPANEDIOL	Log Kow: -0.92 Log Kow: -1.41 - -0.3 20 °C No Other, Supporting study
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Mobility in soil:

Product	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
1,2-PROPANEDIOL	No data available.
CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	Not applicable

Other adverse effects:

Other hazards

Product:	No data available.

13. Disposal considerations

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	No data available.

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Contaminated Packaging:	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.

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:	14.07.2022
Revision Date:	No data available.

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Version #:	1.0
Further Information:	No data available.
References:	No data available.
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