

# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M(TM) Rapid Multi-Enzyme Cleaner (RMEC) 70500-D & 70500-B

### **Product Identification Numbers**

AH-0105-8299-9 AH-1000-1721-1

### 1.2. Recommended use and restrictions on use

#### Recommended use

Product concentrate to be diluted prior to use for cleaning medical, surgical and dental instruments via manual or automated cleaning systems.

For Professional use only

### 1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland

**Telephone:** (09) 477 4040

E Mail: innovation@nz.mmm.com

Website: 3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

# **SECTION 2: Hazard identification**

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

### 2.1. Classification of the substance or mixture

Flammable Liquid: Category 4 Skin Corrosion/Irritation: Category 2 Serious Eye Damage/Irritation: Category 2

Respiratory Sensitiser: Category 1 Skin Sensitizer: Category 1A. Reproductive Toxicity: Category 1B

Specific Target Organ Toxicity (single exposure): Category 2 Chronic Aquatic Toxicity: Category 3

# 2.2. Label elements SIGNAL WORD

Danger

# **Symbols:**

Health Hazard |

# **Pictograms**



#### HAZARD STATEMENTS:

H227	Combustible Liquid
H315 H319 H334	Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 H360	May cause an allergic skin reaction.  May damage fertility or the unborn child.
H371	May cause damage to organs: cardiovascular system   kidney/urinary tract   nervous system   respiratory system.
H412	Harmful to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

Prevention	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P284	Wear respiratory protection.
Response	

Response	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or
	doctor/physician.
P362 + P364	Take off contaminated clothing and wash it before reuse.

### 3M(TM) Rapid Multi-Enzyme Cleaner (RMEC) 70500-D & 70500-B

P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

Storage

P403 Store in a well-ventilated place.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

# **SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	45 - 55
Alcohols, C12-14, ethoxylated propoxylated	68439-51-0	10 - 30
Dipropylene glycol methyl ether	34590-94-8	5 - 15
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	7 - 13
Ethylene glycol	107-21-1	5 - 10
Borax	1303-96-4	1 - 5
Protein Protease Enzyme	9014-01-1	1 - 5
Glycerine	Trade Secret	1 - 5
Propane-1,2-diol	Trade Secret	1 - 5
1-Dodecyl-2-Pyrrolidone	2687-96-9	0.1 - 1
Sodium Hydroxide	1310-73-2	0.1 - 1
Enzyme	Trade Secret	0.1 - 1
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	< 0.1

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

### Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

### If swallowed

Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

This product contains ethylene glycol. If there is reasonable suspicion of ethylene glycol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management.

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

### **Hazardous Decomposition or By-Products**

<b>Condition</b>
During combustion.

### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Hazchem code:** Not applicable.

### **SECTION 6: Accidental release measures**

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2.** Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

Refer to Section 15 - Controls for more information

### 7.1. Precautions for safe handling

Avoid skin contact with hot material. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

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

Store in a well-ventilated place. Keep cool. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents.

### 7.3. Certified handler

Not required

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient Ethylene glycol	CAS Nbr 107-21-1	Agency ACGIH	Limit type TWA(Vapour fraction):25 ppm;STEL(Vapour fraction):50 ppm;STEL(Inhalable aerosol):10 mg/m3	Additional comments A4: Not class. as human carcinogin
Ethylene glycol	107-21-1	New Zealand WES	CEIL(Vapor and mist):127 mg/m3(50 ppm)	
Borax	1303-96-4	ACGIH	TWA(inhalable fraction):2 mg/m3;STEL(inhalable fraction):6 mg/m3	A4: Not class. as human carcinogin
Borax	1303-96-4	New Zealand WES	TWA(8 hours):5 mg/m3	
Sodium Hydroxide	1310-73-2	ACGIH	CEIL:2 mg/m3	
Sodium Hydroxide	1310-73-2	New Zealand WES	CEIL:2 mg/m3	
Dipropylene glycol methyl ether	34590-94-8	ACGIH	TWA:50 ppm;STEL:100 ppm	
Dipropylene glycol methyl ether	34590-94-8	New Zealand WES	TWA(8 hours): 606 mg/m3 (100 ppm); STEL(15 minutes): 909 mg/m3 (150 ppm)	Skin
Protein Protease Enzyme	9014-01-1	ACGIH	CEIL (as pure cystalline enzyme): 0.00006 mg/m3	
Protein Protease Enzyme	9014-01-1	New Zealand WES	CEIL (as pure cystalline enzyme): 0.00006 mg/m3	Respiratory sensitiser, SKIN
Glycerine	Trade Secret	New Zealand WES	TWA(as mist)(8 hours):10 mg/m3	
Propane-1,2-diol	Trade Secret	AIHA	TWA(as aerosol):10 mg/m3	
Propane-1,2-diol		New Zealand WES	TWA(Vapor and particulates)(8 hours):474 mg/m3(150 ppm);TWA(as particulate)(8 hours):10 mg/m3	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

### 3M(TM) Rapid Multi-Enzyme Cleaner (RMEC) 70500-D & 70500-B

CMRG : Chemical Manufacturer's Recommended Guidelines New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million mg/m³: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

#### Thermal hazards

Wear heat insulating gloves, indirect vented goggles, and a full face shield when handling hot material to prevent thermal burns.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.		
Specific Physical Form:	Liquid.		
Colour	Fluorescent Green, Light Green		
Odour	Citrus		
Odour threshold	No data available.		
рН	6.5 - 6.9 [ <i>Details:</i> Neat @ 25 degrees C]		
Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	No data available.		
Flash point	75 °C [Test Method:Pensky-Martens Closed Cup]		
	[Details: Greater than 75C self extinguishing]		
Evaporation rate	No data available.		
Flammability (solid, gas)	Not applicable.		
Flammable Limits(LEL)	No data available.		
Flammable Limits(UEL)	No data available.		
Vapour pressure	No data available.		
Vapor Density and/or Relative Vapor Density	No data available.		
Density	No data available.		
Relative density	1 - 1.1 [ <i>Ref Std</i> :WATER=1]		
Water solubility	No data available.		
Solubility- non-water	No data available.		
Partition coefficient: n-octanol/water	No data available.		
Autoignition temperature	No data available.		
Decomposition temperature	No data available.		
Viscosity/Kinematic Viscosity	No data available.		
Volatile organic compounds (VOC)	(VOC) No data available.		
Percent volatile	No data available.		
VOC less H2O & exempt solvents	No data available.		

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

# 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

Light.

## 10.5 Incompatible materials

Strong acids.

Strong bases.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

<u>Substance</u> <u>Condition</u>

None known.

Refer to Section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

#### Skin contact

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

### Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

### **Ingestion**

May be harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

### **Additional Health Effects:**

### Single exposure may cause target organ effects:

Cardiac effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate. Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure. Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
Dipropylene glycol methyl ether	Dermal	Rabbit	LD50 > 19,000 mg/kg

Dipropylene glycol methyl ether	Inhalation-	Rat	LC50 > 50 mg/l
	Dust/Mist		
	(4 hours)		
Dipropylene glycol methyl ether	Ingestion	Rat	LD50 5,180 mg/kg
Benzenesulfonic acid, C10-16-alkyl derivs.	Dermal	Rabbit	LD50 2,000 mg/kg
Benzenesulfonic acid, C10-16-alkyl derivs.	Ingestion	Rat	LD50 > 300, < 2000 mg/kg
Ethylene glycol	Ingestion	Human	LD50 1,600 mg/kg
Ethylene glycol	Inhalation- Dust/Mist (4 hours)	Other	LC50 estimated to be 5 - 12.5 mg/l
Ethylene glycol	Dermal	Rabbit	9,530 mg/kg
Propane-1,2-diol	Dermal	Rabbit	LD50 20,800 mg/kg
Propane-1,2-diol	Ingestion	Rat	LD50 22,000 mg/kg
Borax	Dermal	Rabbit	LD50 > 10,000 mg/kg
Borax	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.03 mg/l
Borax	Ingestion	Rat	LD50 4,500 mg/kg
Glycerine	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerine	Ingestion	Rat	LD50 > 5,000  mg/kg
Protein Protease Enzyme	Dermal		estimated to be > 5,000 mg/kg
Protein Protease Enzyme	Inhalation- Dust/Mist		estimated to be > 12.5 mg/l
Protein Protease Enzyme	Ingestion		estimated to be > 5,000 mg/kg
1-Dodecyl-2-Pyrrolidone	Dermal		estimated to be > 5,000 mg/kg
1-Dodecyl-2-Pyrrolidone	Inhalation- Dust/Mist		estimated to be > 12.5 mg/l
1-Dodecyl-2-Pyrrolidone	Ingestion		estimated to be > 5,000 mg/kg
Enzyme	Dermal		estimated to be > 5,000 mg/kg
Enzyme	Inhalation- Dust/Mist		estimated to be > 12.5 mg/l
Enzyme	Ingestion		estimated to be > 5,000 mg/kg
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Dermal	Rabbit	LD50 87 mg/kg
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.33 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
Dipropylene glycol methyl ether	Human and animal	No significant irritation
Benzenesulfonic acid, C10-16-alkyl derivs.	similar compoun ds	Minimal irritation
Ethylene glycol	Rabbit	Minimal irritation
Propane-1,2-diol	Rabbit	No significant irritation
Glycerine	Rabbit	No significant irritation
Sodium Hydroxide	Rabbit	Corrosive
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Rabbit	Corrosive

**Serious Eye Damage/Irritation** 

Name	Species	Value

Dipropylene glycol methyl ether	Rabbit	Mild irritant
Benzenesulfonic acid, C10-16-alkyl derivs.	similar	Severe irritant
	compoun	
	ds	
Ethylene glycol	Rabbit	Mild irritant
Propane-1,2-diol	Rabbit	No significant irritation
Glycerine	Rabbit	No significant irritation
Sodium Hydroxide	Rabbit	Corrosive
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-	Rabbit	Corrosive
isothiazolin-3-one (3:1)		

### **Sensitisation:**

### **Skin Sensitisation**

Name	Species	Value
Dipropylene glycol methyl ether	Human	Not classified
Benzenesulfonic acid, C10-16-alkyl derivs.	Human	Some positive data exist, but the data are not sufficient for classification
Ethylene glycol	Human	Not classified
Propane-1,2-diol	Human	Not classified
Glycerine	Guinea	Not classified
	pig	
Sodium Hydroxide	Human	Not classified
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-	Human	Sensitising
isothiazolin-3-one (3:1)	and	
	animal	

### Photosensitisation

Name	Species	Value
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-	Human	Not sensitizing
isothiazolin-3-one (3:1)	and	
	animal	

# **Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity** 

Name	Route	Value
Dipropylene glycol methyl ether	In Vitro	Not mutagenic
Benzenesulfonic acid, C10-16-alkyl derivs.	In Vitro	Not mutagenic
Ethylene glycol	In Vitro	Not mutagenic
Ethylene glycol	In vivo	Not mutagenic
Propane-1,2-diol	In Vitro	Not mutagenic
Propane-1,2-diol	In vivo	Not mutagenic
Sodium Hydroxide	In Vitro	Not mutagenic
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-	In vivo	Not mutagenic
isothiazolin-3-one (3:1)		
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-	In Vitro	Some positive data exist, but the data are not
isothiazolin-3-one (3:1)		sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Ethylene glycol	Ingestion	Multiple animal species	Not carcinogenic
Propane-1,2-diol	Dermal	Mouse	Not carcinogenic

Propane-1,2-diol	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Glycerine	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Dermal	Mouse	Not carcinogenic
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Rat	Not carcinogenic

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Dipropylene glycol methyl ether	Inhalation	Not classified for development	Multiple animal species	NOAEL 1.82 mg/l	during organogenesis
Ethylene glycol	Dermal	Not classified for development	Mouse	NOAEL 3,549 mg/kg/day	during organogenesis
Ethylene glycol	Ingestion	Not classified for development	Mouse	LOAEL 750 mg/kg/day	during organogenesis
Ethylene glycol	Inhalation	Not classified for development	Mouse	NOAEL 1,000 mg/kg/day	during organogenesis
Propane-1,2-diol	Ingestion	Not classified for female reproduction	Mouse	NOAEL 10,100 mg/kg/day	2 generation
Propane-1,2-diol	Ingestion	Not classified for male reproduction	Mouse	NOAEL 10,100 mg/kg/day	2 generation
Propane-1,2-diol	Ingestion	Not classified for development	Multiple animal species	NOAEL 1,230 mg/kg/day	during organogenesis
Glycerine	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerine	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerine	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one and 2-methyl-4- isothiazolin-3-one (3:1)	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one and 2-methyl-4- isothiazolin-3-one (3:1)	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one and 2-methyl-4- isothiazolin-3-one (3:1)	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure
						Duration
Dipropylene glycol methyl	Dermal	central nervous	Not classified	Rabbit	NOAEL	
ether		system depression			2,850 mg/kg	
Dipropylene glycol methyl	Inhalation	central nervous	Not classified	Rat	LOAEL 3.07	7 hours
ether		system depression			mg/l	
Dipropylene glycol methyl	Ingestion	central nervous	Not classified	Rat	LOAEL	
ether	_	system depression			5,000 mg/kg	
Ethylene glycol	Ingestion	heart   nervous	Causes damage to organs	Human	NOAEL Not	poisoning

		system   kidney and/or bladder   respiratory system			available	and/or abuse
Ethylene glycol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Ethylene glycol	Ingestion	liver	Not classified	Human	NOAEL Not available	poisoning and/or abuse
Propane-1,2-diol	Ingestion	central nervous system depression	Not classified	Human and animal	NOAEL Not available	
Sodium Hydroxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
Reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3- one and 2-methyl-4- isothiazolin-3-one (3:1)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Dipropylene glycol methyl ether	Dermal	kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   respiratory system	Not classified	Rabbit	NOAEL 9,500 mg/kg/day	90 days
Dipropylene glycol methyl ether	Inhalation	heart   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 1.21 mg/l	90 days
Dipropylene glycol methyl ether	Ingestion	liver   heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Ethylene glycol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	2 years
Ethylene glycol	Ingestion	vascular system	Not classified	Rat	NOAEL 200 mg/kg/day	2 years
Ethylene glycol	Ingestion	heart   hematopoietic system   liver   immune system   muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	respiratory system	Not classified	Mouse	NOAEL 12,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	skin   endocrine system   bone, teeth, nails, and/or hair   nervous system   eyes	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Propane-1,2-diol	Ingestion	hematopoietic system	Not classified	Multiple animal species	NOAEL 1,370 mg/kg/day	117 days
Propane-1,2-diol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 5,000 mg/kg/day	104 weeks
Glycerine	Inhalation	respiratory system	Not classified	Rat	NOAEL 3.91	14 days

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		heart   liver   kidney and/or bladder			mg/l	
Glycerine	Ingestion	endocrine system   hematopoietic system   liver   kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years

### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

# 12.1. Toxicity

### Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 2 Chronic Aquatic Toxicity: Category 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Alcohols, C12- 14, ethoxylated propoxylated	68439-51-0		Data not available or insufficient for classification			N/A
Dipropylene glycol methyl ether	34590-94-8	Bacteria	Experimental	18 hours	EC10	4,168 mg/l
Dipropylene glycol methyl ether	34590-94-8	Fathead minnow	Experimental	96 hours	LC50	>10,000 mg/l
Dipropylene glycol methyl ether	34590-94-8	Green algae	Experimental	72 hours	EC50	>969 mg/l
Dipropylene glycol methyl ether	34590-94-8	Water flea	Experimental	48 hours	LC50	1,919 mg/l
Dipropylene glycol methyl ether	34590-94-8	Green algae	Experimental	72 hours	EC10	133 mg/l
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Green algae	Analogous Compound	96 hours	EC50	36 mg/l
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Rainbow trout	Experimental	96 hours	LC50	4.3 mg/l

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Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Water flea	Experimental	48 hours	EC50	2.9 mg/l
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Fathead minnow	Analogous Compound	28 days	NOEC	0.9 mg/l
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Green algae	Analogous Compound	72 hours	NOEC	2.2 mg/l
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Water flea	Analogous Compound	21 days	NOEC	0.3 mg/l
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Activated sludge	Analogous Compound	3 hours	EC50	550 mg/l
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Redworm	Analogous Compound	14 days	LC50	>1,000 mg/kg (Dry Weight)
Ethylene glycol	107-21-1	Bacteria	Experimental	16 hours	EC50	10,000 mg/l
Ethylene glycol		Fathead minnow	Experimental	96 hours	LC50	8,050 mg/l
Ethylene glycol	107-21-1	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Ethylene glycol		Water flea	Experimental	48 hours	EC50	>1,100 mg/l
Ethylene glycol		Green algae	Experimental	72 hours	NOEC	1,000 mg/l
Ethylene glycol		Water flea	Experimental	21 days	NOEC	100 mg/l
Borax	1303-96-4	Green algae	Analogous Compound	72 hours	EC50	466 mg/l
Borax	1303-96-4	Water flea	Analogous Compound	48 hours	EC50	1,240 mg/l
Borax	1303-96-4	Zebra Fish	Analogous Compound	96 hours	LC50	123 mg/l
Borax	1303-96-4	Green algae	Analogous Compound	72 hours	ErC10	309 mg/l
Borax	1303-96-4	Water flea	Analogous Compound	21 days	EC10	156 mg/l
Borax	1303-96-4	Zebra Fish	Analogous Compound	34 days	NOEC	49 mg/l
Borax	1303-96-4	Activated sludge	Analogous Compound	3 hours	EC50	>1,540 mg/l
Glycerine	Trade Secret	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Glycerine	Trade Secret	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerine	Trade Secret	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Propane-1,2- diol	Trade Secret		Experimental	10 days	LC50	6,983 mg/kg (Dry Weight)
Propane-1,2- diol	Trade Secret		Experimental	96 hours	LC50	18,800 mg/l

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Propane-1,2- diol	Trade Secret	Green algae	Experimental	96 hours	EC50	19,000 mg/l
Propane-1,2- diol	Trade Secret	Rainbow trout	Experimental	96 hours	LC50	40,613 mg/l
Propane-1,2- diol	Trade Secret	Water flea	Experimental	48 hours	EC50	18,340 mg/l
Propane-1,2- diol	Trade Secret	Green algae	Experimental	96 hours	NOEC	15,000 mg/l
Propane-1,2- diol	Trade Secret	Water flea	Experimental	7 days	NOEC	13,020 mg/l
Propane-1,2- diol	Trade Secret	Bacteria	Experimental	18 hours	NOEC	>20,000 mg/l
Protein Protease Enzyme	9014-01-1		Data not available or insufficient for classification			N/A
1-Dodecyl-2- Pyrrolidone	2687-96-9	Green algae	Experimental	96 hours	EC50	0.086 mg/l
1-Dodecyl-2- Pyrrolidone	2687-96-9	Rainbow trout	Experimental	96 hours	LC50	0.59 mg/l
1-Dodecyl-2- Pyrrolidone	2687-96-9	Water flea	Experimental	48 hours	EC50	0.139 mg/l
1-Dodecyl-2- Pyrrolidone	2687-96-9	Green algae	Experimental	96 hours	EC10	0.046 mg/l
1-Dodecyl-2- Pyrrolidone	2687-96-9	Zebra Fish	Experimental	35 days	EC10	0.018 mg/l
1-Dodecyl-2- Pyrrolidone	2687-96-9	Activated sludge	Experimental	3 hours	EC50	36.4 mg/l
Enzyme	Trade Secret		Data not available or insufficient for classification			N/A
Sodium Hydroxide	1310-73-2		Data not available or insufficient for classification			N/A
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)	55965-84-9	Activated sludge	Experimental	3 hours	NOEC	0.91 mg/l
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)	55965-84-9	Bacteria	Experimental	16 hours	EC50	5.7 mg/l
Reaction mass of: 5-chloro-2- methyl-4-	55965-84-9	Copepod	Experimental	48 hours	EC50	0.007 mg/l

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isothiazolin-3-						
one and 2-						
methyl-4-						
isothiazolin-3-						
one (3:1)						
	55965-84-9	Diatom	Experimental	72 hours	EC50	0.0199 mg/l
of: 5-chloro-2-		2 1400111	Z.ip • i i i i i i i i i i i i i i i i i i	7 = 110 0115		0.0133 Ilig/1
methyl-4-						
isothiazolin-3-						
one and 2-						
methyl-4-						
isothiazolin-3-						
one (3:1)						
	55965-84-9	Green algae	Experimental	72 hours	EC50	0.027 mg/l
of: 5-chloro-2-						
methyl-4-						
isothiazolin-3-						
one and 2-						
methyl-4-						
isothiazolin-3-						
one (3:1)						
Reaction mass	55965-84-9	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
of: 5-chloro-2-	33903-84-9	Kambow irout	Experimental	96 Hours	LC30	0.19 mg/1
methyl-4-						
isothiazolin-3-						
one and 2-						
methyl-4-						
isothiazolin-3-						
one (3:1)						
Reaction mass	55965-84-9	Sheepshead	Experimental	96 hours	LC50	0.3 mg/l
of: 5-chloro-2-		Minnow	-			
methyl-4-						
isothiazolin-3-						
one and 2-						
methyl-4-						
isothiazolin-3-						
one (3:1)						
	55965-84-9	Water flea	Experimental	48 hours	EC50	0.099 mg/l
	33903-84-9	water nea	Experimental	48 Hours	EC30	0.099 mg/1
of: 5-chloro-2-						
methyl-4-						
isothiazolin-3-						
one and 2-						
methyl-4-						
isothiazolin-3-						
one (3:1)						
Reaction mass	55965-84-9	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
of: 5-chloro-2-						-
methyl-4-						
isothiazolin-3-						
one and 2-						
methyl-4-						
isothiazolin-3-						
one (3:1)						
		D 1 1	D 1 . 1	26.1	NOEL	0.02
ik eaction mass	155065 04 0	Hiothand				
of: 5-chloro-2-	55965-84-9	Fathead minnow	Experimental	36 days	NOEL	0.02 mg/l

methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)						
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)	55965-84-9	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)	55965-84-9	Water flea	Experimental	21 days	NOEC	0.004 mg/l

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Alcohols, C12- 14, ethoxylated propoxylated	68439-51-0	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Dipropylene glycol methyl ether	34590-94-8	Experimental Biodegradation	28 days	BOD	75 %BOD/ThO D	Manometric respirometry
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Experimental Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Ethylene glycol	107-21-1	Experimental Biodegradation	14 days	BOD	90 %BOD/ThO D	OECD 301C - MITI test (I)
Borax	1303-96-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Glycerine	Trade Secret	Experimental Biodegradation	14 days	BOD	63 %BOD/ThO D	OECD 301C - MITI test (I)
Propane-1,2- diol	Trade Secret	Experimental Biodegradation	28 days	BOD	90 %BOD/ThO D	OECD 301C - MITI test (I)
Propane-1,2- diol	Trade Secret	Experimental Biodegradation	64 days	Dissolv. Organic Carbon Deplet	95.8 % removal of DOC	OECD 306(Misc)- Biodegrad. Seaw
Protein Protease Enzyme	9014-01-1	Experimental Biodegradation	28 days	BOD	65-80 % weight	OECD 301D - Closed bottle test
1-Dodecyl-2- Pyrrolidone	2687-96-9	Experimental Aquatic Inherent Biodegrad.	28 days	Dissolv. Organic Carbon Deplet	99.8 % removal of DOC	40CFR 796.3340-Mod. SCAS test

Enzyme	Trade Secret	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	99 % weight	OECD 301E - Modif. OECD Screen
Sodium Hydroxide	1310-73-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)	55965-84-9	Estimated Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THC O2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)	55965-84-9	Estimated Photolysis		Photolytic half- life (in air)	1.2 days (t 1/2)	
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)	55965-84-9	Experimental Hydrolysis		Hydrolytic half-life	> 60 days (t 1/2)	

# 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Alcohols, C12- 14, ethoxylated propoxylated	68439-51-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dipropylene glycol methyl ether	34590-94-8	Experimental Bioconcentrati on		Log Kow	0.0061	
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Analogous Compound BCF - Fish	28 days	Bioaccumulatio n factor	220	
Benzenesulfoni c acid, C10-16- alkyl derivs.	68584-22-5	Experimental Bioconcentrati on		Log Kow	2.0	OECD 107 log Kow shke flsk mtd
Ethylene glycol	107-21-1	Experimental Bioconcentrati on		Log Kow	-1.36	
Borax	1303-96-4	Experimental Bioconcentrati on		Log Kow	-1.53	EC A.8 Partition Coefficient

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Glycerine	Trade Secret	Experimental Bioconcentrati on		Log Kow	-1.76	
Propane-1,2- diol	Trade Secret	Experimental Bioconcentrati on		Log Kow	-1.07	EC A.8 Partition Coefficient
Protein Protease Enzyme	9014-01-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1-Dodecyl-2- Pyrrolidone	2687-96-9	Modeled Bioconcentrati on		Bioaccumulatio n factor	9.8	Catalogic <sup>™</sup>
1-Dodecyl-2- Pyrrolidone	2687-96-9	Experimental Bioconcentrati on		Log Kow	4.03	EC A.8 Partition Coefficient
Enzyme	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sodium Hydroxide	1310-73-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3- one and 2- methyl-4- isothiazolin-3- one (3:1)	55965-84-9	Estimated BCF - Fish	28 days	Bioaccumulatio n factor	54	OECD305- Bioconcentration

### 12.4. Mobility in soil

Please contact manufacturer for more details

#### 12.5 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

# **SECTION 14: Transport Information**

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable.

**IERG:** Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Not applicable.

# **SECTION 15: Regulatory information**

HSNO Approval number HSR002525

Group standard name Cleaning Products (Combustible) Group Standard 2020

HSNO Hazard classification Refer to Section 2: Hazard identification

### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

# Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler Not required Location Compliance Certificate Not required Hazardous atmosphere zone Not required

Fire extinguishers Two required for 500 L

Emergency response plan 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for Acute toxicity Category 4, Skin sensitisation Category 1,

Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances);

or 10 000 L (for all other substances)

Secondary containment 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for Acute toxicity Category 4, Skin sensitisation Category 1,

Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances);

or 10 000 L (for all other substances)

Tracking Not required

Warning signage 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or  $10\,000\,L$  (for all other substances)

### **SECTION 16: Other information**

#### **Revision information:**

Complete document review.

Document group:	16-2468-3	Version number:	5.00
Issue Date:	07/08/2022	Supersedes date:	14/06/2018

#### Key to abbreviations and acronyms

**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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