# **SAFETY DATA SHEET**

Activefluid MC-1000

### Section 1. Identification

Product name	: Activefluid MC-1000	
Product code	: Not available.	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Cleaning Products / Detergents	
Area of application	: Professional applications.	
Manufacturer	<ul> <li>PRISMAN GmbH</li> <li>Otto-Hahn-Ring 6-18</li> <li>D-64653 Lorsch</li> <li>Germany</li> <li>Supplier</li> <li>Ivoclar Vivadent Ltd.</li> <li>12 Omega Street</li> <li>GB Rosedale, Auckland/ NEW ZEALAND</li> <li>Phone +64 9 914 9999</li> <li>www.ivoclar.com.nz</li> </ul>	
e-mail address of person responsible for this SDS	info@chemical-check.de; k.schnurbusch@chemical-check.de	
Emergency telephone number (with hours of operation)	: National Poison Centre (New Zealand): 0800 764 766 (24 hours)	

### Section 2. Hazards identification

**HSNO Classification** 

: 3.1 - FLAMMABLE LIQUIDS - Category C

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 35%

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements		
Signal word	Warning	
Hazard statements	Flammable liquid and vapour.	
Precautionary statements		
Prevention	Wear protective gloves. Wear eye or face protection. Keep away from ignition sources such as heat/sparks/open flame No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only n sparking tools. Take precautionary measures against static discharge. Keep container tightly closed.	f 10n-
Response	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing Rinse skin with water [or shower].	<b>g</b> .
Storage	Store in a well-ventilated place. Keep cool.	
Disposal	Dispose of contents and container in accordance with all local, regional, natio and international regulations.	nal

## Section 2. Hazards identification

t

#### Symbol



**Other hazards which do not** : Prolonged or repeated contact may dry skin and cause irritation. result in classification

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	% (w/w)	CAS number
ethanol	10 - < 30	64-17-5
Isopropyl alcohol	< 10	67-63-0

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

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

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Most important symptor	ns/effects, acute and delayed
Potential acute health e	ffects
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Eye contact	: No known significant effects or critical hazards.
Over-exposure signs/s	<u>imptoms</u>
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# Section 4. First aid measures

Inhalation	:	No specific data.
Ingestion	:	No specific data.
Skin	:	Adverse symptoms may include the following: irritation dryness cracking
Eyes	1	No specific data.
Indication of immediate med	ica	l attention and special treatment needed, if necessary
Specific treatments	:	Not available.
Notes to physician	:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

### Section 5. Firefighting measures

Extinguishing media		
Suitable	Use dry chemical, $CO_2$ , alcohol-resistant foam or water spray (fog).	
Not suitable	Do not use water jet.	
Specific hazards arising from the chemical	Flammable liquid and vapour. In a fire or if heated, a pressure increase will and the container may burst, with the risk of a subsequent explosion. Runof sewer may create fire or explosion hazard.	
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide	
Hazchem code	3Y	
Special precautions for fire- fighters	Promptly isolate the scene by removing all persons from the vicinity of the in there is a fire. No action shall be taken involving any personal risk or withou suitable training. Move containers from fire area if this can be done without Use water spray to keep fire-exposed containers cool.	ıt
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-containe breathing apparatus (SCBA) with a full face-piece operated in positive press mode.	

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for cor	ainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
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### Section 6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release
30 op	from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.
	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
ethanol Isopropyl alcohol	NZ HSWA 2015 (New Zealand, 11/2017). WES-TWA: 1000 ppm 8 hours. WES-TWA: 1880 mg/m <sup>3</sup> 8 hours. NZ HSWA 2015 (New Zealand, 11/2018). WES-TWA: 400 ppm 8 hours. WES-TWA: 983 mg/m <sup>3</sup> 8 hours. WES-STEL: 1230 mg/m <sup>3</sup> 15 minutes. WES-STEL: 500 ppm 15 minutes.
Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering cont	

limits. Use explosion-proof ventilation equipment.

also need to keep gas, vapour or dust concentrations below any lower explosive

## Section 8. Exposure controls/personal protection

controlsthey comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.Individual protection measures:Hygiene measures:Wash hands, forearms and face thoroughly after handling chemical products, befor eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.Respiratory protection:Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection mu be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.Hand protection:Chemical-resistant, impervious gloves complying with an approved standard shoul be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufactures. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.Eye protection:Safety eyewear complying with an approved standard should be worn, unless the assessment indicates his is necessary to avoid exposure to liquid splashes, mists gases or dus		
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, befor eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection mu be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended: buty rubber Nitrile rubber. natural rubber (latex)Eye protection: Safety eyewear complying with an approved standard should be worn, unless the assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts. If contact is possible, the following protection: safety glasses wit side-shields.Kin protection: Personal protective equipment for the body should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, <b< td=""><td></td><td></td></b<>		
eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection mu be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.Hand protection: Chemical-resistant, impervious gloves complying with an approved standard shoul be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture check during use that the glove are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended: butyl rubber Nitrile rubber. natural rubber (latex)Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.Skin protection: Personal protective equipment for the body should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protectiv	Individual protection measu	res
Hand protectionstandard if a risk assessment indicates this is necessary. Respirator selection mu be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.Hand protection: Chemical-resistant, impervious gloves complying with an approved standard shoul be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended: butyl rubber Nitrile rubber. natural rubber (latex)Eye protection: Safety eyewear complying with an approved standard should be worn, unless the assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.Skin protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static	Hygiene measures	Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and
be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be 	Respiratory protection	standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and
<ul> <li>assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.</li> <li>Skin protection</li> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static</li> </ul>	Hand protection	<ul> <li>should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.</li> <li>Recommended:</li> <li>butyl rubber</li> <li>Nitrile rubber.</li> </ul>
being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static	Eye protection	assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with
	Skin protection	being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity,

## Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid. [Fluid.]
Colour	: Colourless.
Odour	: Alcohol-like.
Odour threshold	: Not available.
рН	: 7.6
Melting point	: Not available.
Boiling point	: 100°C (212°F)
Flash point	: Closed cup: 40°C (104°F)
Burning rate	: Not applicable.
Burning time	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not applicable.

# Section 9. Physical and chemical properties

-		
Lower and upper explosive (flammable) limits	1	Not applicable.
Vapour pressure	1	Not available.
Vapour density	1	Not available.
Relative density	1	Not available.
Density	1	0.97 g/cm³ [20°C (68°F)]
Solubility	1	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
SADT	1	Not available.
Viscosity	1	Not applicable.
Flow time (ISO 2431)	1	Not available.
Physical/chemical properties comments	:	Organic solvents: <20% VOC content :20%

# Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Eye contact	: No known significant effects or critical hazards.
Symptoms related to	the physical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Eye contact	: No specific data.
Delayed and immedi	ate effects as well as chronic effects from short and long-term exposure
Acute toxicity	

Date of issue/Date of revision

: 06/08/2019 Date of previous issue

#### **New Zealand**

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
Isopropyl alcohol	LD50 Oral	Rat	7 g/kg	-
	LC50 Inhalation Vapour	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	0.0666666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

<u>Conclusion/Summary</u>	
Skin	: Not available.
Eyes	: Not available.
Respiratory	: Not available.

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
ethanol	skin	Guinea pig	Not sensitizing

Conclusion/Summary	
Skin	: Not available.
Respiratory	: Not available.
Detential obvenia health a	ffeete

#### Potential chronic health effects

General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.			
Inhalation	: No known significant effects or critical hazards.			
Ingestion	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Eye contact	: No known significant effects or critical hazards.			
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Teratogenicity	: No known significant effects or critical hazards.			
<b>Developmental effects</b>	: No known significant effects or critical hazards.			
Fertility effects	: No known significant effects or critical hazards.			
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# Section 11. Toxicological information

Result	Species	Dose	Exposur
Chronic NOAEL Oral	Rat - Female	1730 mg/kg / day	90 days
<ul><li>Not available.</li><li>Not available.</li></ul>	I		
Test	Experiment	Resu	ılt
OECD 471 Bacterial Reverse Mutation Test OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test	Subject: Bacteria Subject: Mammalian-/		
: Not available.			
: Not available.			
: Not available.			
<u>ty</u>			
	<ul> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Test</li> <li>OECD 471 Bacterial Reverse Mutation Test OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>	<ul> <li>Not available.</li> <li>Not available.</li> <li>Test Experiment</li> <li>OECD 471 Bacterial Reverse Mutation Test OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>	<ul> <li>Not available.</li> <li>Not available.</li> <li>Test Experiment Resultation Test OECD 471 Bacterial Reverse Mutation Test OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>

Acute toxicity estimates

Route	ATE value
Oral	50000 mg/kg
Dermal	10000 mg/kg

### Section 12. Ecological information

: No known significant effects or critical hazards.

#### Aquatic and terrestrial toxicity

**Ecotoxicity** 

Product/ingredient name	Result	Species	Exposure
ethanol	Acute LC50 275 mg/l	Algae - Chlorella vulgaris	72 hours
	Acute LC50 12900 mg/l	Algae - Selenastrum capricornutum	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 12340 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 5680 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 13000 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
Isopropyl alcohol	Acute EC50 7550 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
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New Zealand

### Section 12. Ecological information

Acute LC50 1400000 µg/I Marine water	Crustaceans - Crangon crangon	48 hours
Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours

**Conclusion/Summary** : Not available.

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethanol	301B Ready Biodegradability - CO2 Evolution Test	97 % - 28 days	-	-
Isopropyl alcohol	OECD 301E Ready Biodegradability - Modified OECD Screening Test	95 % - 21 days	-	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-		Readily
Isopropyl alcohol	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	0.66 to 3.2	low
Isopropyl alcohol	0.05	-	low

Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

#### Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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# Section 14. Transport information

	New Zealand	IMDG	IATA
UN number	UN1987	UN1987	UN1987
UN proper shipping name	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	Alcohols, n.o.s. (ethanol, Isopropyl alcohol)
Transport hazard class(es)	3	3	3
Packing group	Ш	Ш	Ш
Environmental hazards	No.	No.	No.

#### Additional information

New Zealand	:	Hazchem code 3Y Special provisions 223, 274
IMDG	:	Emergency schedules F-E, S-D Special provisions 223, 274
ΙΑΤΑ	:	<b>Quantity limitation</b> Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. <b>Special provisions</b> A3, A180
Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to Annex II of Marpol and the IBC Code	:	Not available.

# Section 15. Regulatory information

-	-				
New Zealand Inventory of Chemicals (NZIoC)	: Not determin	ied.			
HSNO Approval Number	: Not available	).			
HSNO Group Standard	: Not available	<b>)</b> .			
HSNO Classification	: 3.1 - FLAMM	IABLE LIQUIDS - Cateo	jory C		
International regulations					
Chemical Weapon Convent	on List Schedu	les I, II & III Chemicals	1		
Not listed.					
Montreal Protocol (Annexes Not listed.	<mark>a, B, C, E)</mark>				
Stockholm Convention on F Not listed.	Persistent Orgar	<u>nic Pollutants</u>			
Rotterdam Convention on F	rior Informed C	onsent (PIC)			
Not listed.					
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# Section 15. Regulatory information

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

Not listed.

### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 06/08/2019
Date of previous issue	: No previous validation
Version	: 1
Prepared by	: Chemical Check GmbH
Key to abbreviations	<ul> <li>ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations</li> </ul>
References	<ul> <li>Environmental Protection Authority - Inventory of Chemicals (NZIoC) Hazardous Substances Regulations 2001 (Classification, Identification, Minimum Degrees of Hazard) Hazardous Substances and New Organisms Act (HSNO) 1996 – Hazardous Substances List Health and Safety in Employment Act 1992 - Workplace Exposure Standards and Biological Exposure Indices Code of Practice for the Preparation of Safety Data Sheets (SDS) Transport of Dangerous Goods on Land (NZS 5433:2012) User Guide to the Thresholds and Classifications under the Hazardous Substances and New Organisms Act 1996 (GHS) GHS - Globally Harmonized System of Classification and Labeling of Chemicals International transport regulations</li> </ul>

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability 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.

New Zealand

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