

Classified as hazardous in accordance with the criteria of EPA New Zealand

## Section 1 - Identification

### Product Identifier

**Product Name** CLOR-N-OIL test kit

**Recommended Use** Laboratory chemicals.  
**Uses advised against** No Information available

<b>Product Code</b>	DEXCL-020, DEXCL-050
<b>Address</b>	Thermo Fisher Scientific New Zealand Ltd 244 Bush Road, Albany, Auckland, New Zealand
<b>Emergency Tel.</b>	CHEMTREC® 09 980 6780 or +64 9 980 6780
<b>Telephone / Fax Numbers</b>	Tel: 09 980 6700 Fax: 09 980 6788
<b>E-mail address</b>	ANZinfo@thermofisher.com

## Section 2 - Hazard(s) Identification

### Classification under Work Safe New Zealand

Classified as hazardous in accordance with the criteria of EPA New Zealand

**HSNO Approval Number** HSR002596

### GHS Classification

#### Physical hazards

Based on available data, the classification criteria are not met

#### Health hazards

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1B

#### Environmental hazards

Based on available data, the classification criteria are not met

### Label Elements

**Signal Word****Danger****Hazard Statements**

H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H350 - May cause cancer  
 H360 - May damage fertility or the unborn child  
 H302 - Harmful if swallowed

**Precautionary Statements****Prevention**

P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P280 - Wear eye protection/ face protection

**Response**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 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  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention  
 P362 + P364 - Take off contaminated clothing and wash it before reuse

**Storage**

P403 - Store in a well-ventilated place

**Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

**Other hazards which do not result in classification**

This product does not contain any known or suspected endocrine disruptors

## Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Water	7732-18-5	Aq solution
Water	7732-18-5	Ampule 3
Sodium dimethyldithiocarbamate	128-04-1	Ampule 5 colourless
Ethyl alcohol	64-17-5	Ampule 4 red green
Diethylene glycol dimethyl ether	111-96-6	Ampule 2 blue
Sulfuric acid	7664-93-9	Aq solution
Petroleum distillates, hydrotreated middle	64742-46-7	Ampule1 grey
Sodium	7440-23-5	Ampule 1 grey
Naphthalene	91-20-3	Ampule 2 blue
Mercuric nitrate	10045-94-0	Ampule 3

## Section 4 - First Aid Measures

**Description of first aid measures**

New Zealand Emergency Tel.

CHEMTREC®  
 09 980 6780 or +64 9 980 6780

<b>Inhalation</b>	Remove to fresh air.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Self-Protection of the First Aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
<b>First Aid Facilities</b>	Eyewash, safety shower and washroom.
<b>Most important symptoms and effects</b>	No information available.
<b>Notes to Physician</b>	Treat symptomatically.

## Section 5 - Fire Fighting Measures

### **Suitable Extinguishing Media**

Water mist may be used to cool closed containers.

### **Extinguishing media which must not be used for safety reasons**

No information available.

### **Specific Hazards Arising from the Chemical**

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

### **Hazardous Combustion Products**

None under normal use conditions.

### **Special protective equipment and precautions for fire fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6 - Accidental Release Measures

### **Personal Precautions, Protective Equipment and Emergency Procedures**

#### **Emergency procedures**

Remove all sources of ignition. Take precautionary measures against static discharges.

#### **Environmental Precautions**

See Section 12 for additional Ecological Information.

#### **Methods for Containment and Clean Up**

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

#### **Precautions to prevent secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

## Section 7 - Handling and Storage

**Precautions for Safe Handling****Advice on safe handling**

If peroxide formation is suspected, do not open or move container. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

**Conditions for Safe Storage, Including any Incompatibilities****Storage Conditions**

Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame.

**Incompatible Materials**

None known.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

AS 1940-2004 - The storage and handling of flammable and combustible liquids

## Section 8 - Exposure Controls and Personal Protection

**Control parameters****Exposure limits**

**NZ** - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

**UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

**AUS** - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

**ACGIH** - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

Component	New Zealand WEL	Australia	ACGIH TLV	The United Kingdom
Ethyl alcohol	TWA: 200 ppm TWA: 380 mg/m <sup>3</sup> STEL: 800 ppm STEL: 1520 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	STEL: 1000 ppm	TWA: 1000 ppm TWA; 1920 mg/m <sup>3</sup> TWA WEL - STEL: 3000 ppm STEL; 5760 mg/m <sup>3</sup> STEL
Sulfuric acid	TWA: 0.1 mg/m <sup>3</sup>	STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	STEL: 0.15 mg/m <sup>3</sup> 15 min TWA: 0.05 mg/m <sup>3</sup> 8 hr
Naphthalene	TWA: 0.5 ppm TWA: 2.6 mg/m <sup>3</sup> STEL: 2 ppm STEL: 10 mg/m <sup>3</sup> Skin	STEL: 15 ppm STEL: 79 mg/m <sup>3</sup> TWA: 10 ppm TWA: 52 mg/m <sup>3</sup>	TWA: 10 ppm Skin	
Mercuric nitrate		TWA: 0.003 ppm TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup> Skin	STEL: 0.06 mg/m <sup>3</sup> 15 min TWA: 0.02 mg/m <sup>3</sup> 8 hr

**Biological limit values**

**ACGIH** - American Conference of Governmental Industrial Hygienists (ACGIH) TLVs® and BEIs®- Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices. 2022 Edition

Component	New Zealand	Australia	ACGIH - Biological Exposure Indices	United Kingdom
Naphthalene			Medium: Time: end of shift Determinant: 1-Naphthol	

			with hydrolysis plus 2-Naphthol with hydrolysis	
Mercuric nitrate			20 µg/g creatinine Medium: urine Time: prior to shift Determinant: Mercury	

**Appropriate engineering controls****Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

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

**Eye Protection** Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications)

**Hand Protection** Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Disposable gloves.	See manufacturers recommendations	-	AS/NZS 2161	(minimum requirement)

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

**Skin and body protection** Long sleeved clothing

**Respiratory Protection** Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use and maintenance of respiratory protective devices (or AUS/NZ equivalent)  
When RPE is used a face piece Fit Test should be conducted

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

**Section 9 - Physical and Chemical Properties****Information on basic physical and chemical properties**

<b>Physical State</b>	disc	
<b>Appearance</b>	Varies	
<b>Odor</b>	No information available	
<b>Odor Threshold</b>	No data available	
<b>pH</b>	Not applicable	
<b>Melting Point/Range</b>	No data available	
<b>Softening Point</b>	No data available	
<b>Boiling Point/Range</b>	100 - 185 °C / 212 - 365 °F	
<b>Flammability (liquid)</b>	No data available	On basis of test data
<b>Flammability (solid,gas)</b>	No information available	
<b>Explosion Limits</b>	No data available	
<b>Flash Point</b>	8 143.6 °C / 46.4 - 290.5 °F	<b>Method -</b> No information available

<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Water Solubility</b>	No information available
<b>Solubility in other solvents</b>	No information available
<b>Partition Coefficient (n-octanol/water)</b>	
<b>Component</b>	<b>log Pow</b>
Sodium dimethyldithiocarbamate	-3.2
	<-2.28
	<-2.33
Ethyl alcohol	-0.32
Diethylene glycol dimethyl ether	-0.36
Naphthalene	3.4
<b>Vapor Pressure</b>	No data available
<b>Density / Specific Gravity</b>	No data available
<b>Bulk Density</b>	No data available
<b>Vapor Density</b>	No data available (Air = 1.0)
<b>Particle characteristics</b>	No data available

**Other information**

**Explosive Properties** Vapors may form explosive mixtures with air

**Section 10 - Stability and Reactivity**

<b>Reactivity</b>	None known, based on information available
<b>Stability</b>	Stable under normal conditions.
<b>Sensitivity to Mechanical Impact</b>	No information available
<b>Sensitivity to Static Discharge</b>	No information available
<b>Hazardous Polymerization</b>	No information available.
<b>Hazardous Reactions</b>	No information available.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible Materials</b>	None known.
<b>Hazardous Decomposition Products</b>	None under normal use conditions.

**Section 11 - Toxicological Information****Acute Effects****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Not an expected route of exposure.
<b>Eyes</b>	Not an expected route of exposure.
<b>Skin</b>	No known effect based on information supplied.
<b>Ingestion</b>	Not an expected route of exposure.

**Numerical measures of toxicity****(a) acute toxicity;**

<b>Oral</b>	Based on available data, the classification criteria are not met
<b>Dermal</b>	Based on available data, the classification criteria are not met

**Inhalation**

Based on available data, the classification criteria are not met

**Toxicology data for the components**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Water	LD50 > 90 mL/kg ( Rat )		
Sodium dimethyldithiocarbamate	LD50 = 3929 mg/kg ( Rat )	LD50 > 5000 mg/kg ( Rat )	LC50 > 2.05 mg/L ( Rat ) 4 h
Ethyl alcohol	LD50 = 7060 mg/kg ( Rat )		20000 ppm/10H ( Rat )
Diethylene glycol dimethyl ether	LD50 = 7500 mg/kg ( Rat )	LD50 > 6900 mg/kg ( Rat )	LC50 > 11000 mg/m <sup>3</sup> ( Rat ) 7 h
Sulfuric acid	2140 mg/kg ( Rat )		LC50 = 0.375 mg/L ( Rat ) 4 h
Petroleum distillates, hydrotreated middle	LD50 = 7400 mg/kg ( Rat )	LD50 > 2000 mg/kg ( Rabbit )	LC50 = 4.6 mg/L ( Rat ) 4 h
Naphthalene	LD50 = 1110 mg/kg ( Rat )	LD50 = 1120 mg/kg ( Rabbit )	LC50 > 0.4 mg/L ( Rat ) 4 h
Mercuric nitrate	LD50 = 26 mg/kg ( Rat )		

**(b) skin corrosion/irritation;** Category 2**(c) serious eye damage/irritation;** Category 2**(d) respiratory or skin sensitization;****Respiratory**

No data available

**Skin**

No data available

**(e) germ cell mutagenicity;** No data available**(f) carcinogenicity;** Category 1B

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	New Zealand	Australia	New South Wales	Western Australia	IARC	EU	UK	Germany
Sulfuric acid	Confirmed carcinogen				Group 1			
Petroleum distillates, hydrotreated middle						Carc Cat. 1B		
Naphthalene	Suspected carcinogen				Group 2B			Cat. 2

**(g) reproductive toxicity;** Category 1B**(h) STOT-single exposure;** No data available**(i) STOT-repeated exposure;** No data available**Target Organs**

No information available.

**(j) aspiration hazard;** No data available**Symptoms / effects, both acute and delayed**

No information available.

## Section 12 - Ecological Information

### Ecotoxicity

#### Aquatic ecotoxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Sodium dimethyldithiocarbamate	LC50: = 3.44 mg/L, 96h static (Lepomis macrochirus) LC50: 29 - 56 mg/L, 96h flow-through (Lepomis macrochirus) LC50: 2.1 - 3.2 mg/L, 96h semi-static (Poecilia reticulata) LC50: = 1.7 mg/L, 96h static (Oncorhynchus mykiss) LC50: 3.7 - 11.4 mg/L, 96h flow-through (Oncorhynchus mykiss)	EC50: = 0.2 mg/L, 48h (Daphnia magna)		EC50 = 0.51 mg/L 15 min
Ethyl alcohol	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h	EC50 (72h) = 275 mg/l (Chlorella vulgaris)	Photobacterium phosphoreum: EC50 = 34634 mg/L/30 min Photobacterium phosphoreum: EC50 = 35470 mg/L/5 min
Diethylene glycol dimethyl ether	Rainbow trout: LC50 = 9845 mg/L/96h Fathead Minnow: LC50 = 8569 mg/L 96h Bluegill/Sunfish: LC50 = 10928 mg/L 96h			Daphnia: EC50 = 5868 mg/L 96h
Sulfuric acid	LC50: > 500 mg/L, 96h static (Brachydanio rerio)	EC50: 29 mg/L/24h	-	-
Petroleum distillates, hydrotreated middle	LC50: > 10000 mg/L, 96h static (Pimephales promelas) LC50: = 35 mg/L, 96h flow-through (Pimephales promelas)			
Naphthalene	LC50 96 h 1-6.5 mg/L (Pimephales promelas)	EC50: 1.09 - 3.4 mg/L, 48h Static (Daphnia magna) EC50: = 1.96 mg/L, 48h Flow through (Daphnia magna) LC50: = 2.16 mg/L, 48h (Daphnia magna)		EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h
Mercuric nitrate	0.17 mg/l (fathead minnow)			

#### Terrestrial ecotoxicity

Component	Earthworm	Avian	Honeybees
Ethyl alcohol	Acute toxicity: LC50 0.1 - 1 mg/cm2 (Eisenia foetida, 48 h, filter paper)		

#### Persistence and Degradability

No information available



Component	Degradability
Diethylene glycol dimethyl ether 111-96-6 ( Ampule 2 blue )	>99% 36d (OECD 302B)

**Bioaccumulative Potential** No information available

Component	log Pow	Bioconcentration factor (BCF)
Sodium dimethyldithiocarbamate	-3.2 <-2.28 <-2.33	No data available
Ethyl alcohol	-0.32	No data available
Diethylene glycol dimethyl ether	-0.36	No data available
Naphthalene	3.4	36.5 - 168 dimensionless

**Mobility** No information available.

#### Other adverse effects

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors  
**Persistent Organic Pollutant** This product does not contain any known or suspected substance  
**Ozone Depletion Potential** This product does not contain any known or suspected substance

## Section 13 - Disposal Considerations

#### Waste treatment methods

**Waste from Residues/Unused Products** Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

**Contaminated Packaging** Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

**Other Information** Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations .

## Section 14 - Transport Information

Component	Hazchem Code
Ethyl alcohol	2YE
64-17-5 ( Ampule 4 red green )	2Y
Sulfuric acid	2P
7664-93-9 ( Aq solution )	
Sodium	4W
7440-23-5 ( Ampule 1 grey )	
Naphthalene	1Z
91-20-3 ( Ampule 2 blue )	1Y
Mercuric nitrate	2X
10045-94-0 ( Ampule 3 )	

#### NZS 5433:2020

**UN-No** UN1391  
**Proper Shipping Name** ALKALI METAL DISPERSION  
**Technical Shipping Name** Mercuric nitrate, naphthalene, Organo-sulfur compound and ethanol

Hazard Class 4.3  
Packing Group I

**IATA**

UN-No UN1391  
Proper Shipping Name ALKALI METAL DISPERSION  
Technical Shipping Name Mercuric nitrate, naphthalene, Organo-sulfur compound and ethanol  
Hazard Class 4.3  
Packing Group I

**IMDG/IMO**

UN-No UN1391  
Proper Shipping Name ALKALI METAL DISPERSION  
Technical Shipping Name Mercuric nitrate, naphthalene, Organo-sulfur compound and ethanol  
Hazard Class 4.3  
Packing Group I

Component	IMDG Marine Pollutant
Naphthalene 91-20-3 ( Ampule 2 blue )	IMDG regulated marine pollutant (UN1334, listed under Naphthalene, crude); IMDG regulated marine pollutant (UN2304, listed under Naphthalene, molten); IMDG regulated marine pollutant (UN1334, listed under Naphthalene, refined)
Mercuric nitrate 10045-94-0 ( Ampule 3 )	IMDG regulated marine pollutant (UN1625) IMDG regulated marine pollutant (UN2025)

Environmental hazards No hazards identified

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable, packaged goods

Special Precautions No special precautions required. Please refer to the applicable dangerous goods regulations for additional information.

Additional information None known

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number	HSR002596
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**National Regulations**

There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

**Certified handlers, tracking and controlled substance license requirements**

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information. Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information.

**Prohibition or notification/licensing requirements**

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

Component	New Zealand
Sulfuric acid	Confirmed carcinogen
Naphthalene	Suspected carcinogen

**International Regulations**

Ozone Depletion Potential This product does not contain any known or suspected substance

**Persistent Organic Pollutant**

This product does not contain any known or suspected substance

**Rotterdam Convention (PIC)**

Chemicals Subject to Prior Informed Consent (PIC)

Component	Rotterdam Convention (PIC)
Mercuric nitrate - 10045-94-0	X

Component	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	IMDG Marine Pollutant
Naphthalene			IMDG regulated marine pollutant (UN1334, listed under Naphthalene, crude); IMDG regulated marine pollutant (UN2304, listed under Naphthalene, molten); IMDG regulated marine pollutant (UN1334, listed under Naphthalene, refined)
Mercuric nitrate			IMDG regulated marine pollutant (UN1625) IMDG regulated marine pollutant (UN2025)

**Authorisation/Restrictions according to EU REACH**

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Diethylene glycol dimethyl ether	Toxic for reproduction Category 1B, Article 57 Application date: February 22, 2016 Sunset date: August 22, 2017 Exemption - None	Use restricted. See entry 30. (see link for restriction details) Use restricted. See entry 75. (see link for restriction details)	SVHC Candidate list - Toxic for reproduction (Article 57c)
Sulfuric acid	-	Use restricted. See entry 75. (see link for restriction details)	-
Petroleum distillates, hydrotreated middle	-	Use restricted. See entry 28. (see link for restriction details) Use restricted. See entry 75. (see link for restriction details)	-
Sodium	-	Use restricted. See entry 75. (see link for restriction details)	-
Naphthalene	-	Use restricted. See entry 75. (see link for restriction details)	-
Mercuric nitrate	-	Use restricted. See entry 18. (see link for restriction details) Use restricted. See entry 75. (see link for restriction details)	-

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

<https://echa.europa.eu/authorisation-list>

<https://echa.europa.eu/candidate-list-table>

<https://echa.europa.eu/substances-restricted-under-reach>

**International Inventories**

New Zealand (NZIoC), Australia (AICS), Europe (EINECS/ELINCS/NLP), Korea (KECL), China (IECSC), Taiwan (TCSI), Japan (ENCS), Japan (ISHL), Canada (DSL/NDL), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	NZIoC	AICS	EINECS	ELINCS	NLP	KECL	IECSC	TCSI
Water	7732-18-5	X	X	231-791-2	-	-	KE-35400	X	X
Water	7732-18-5	X	X	231-791-2	-	-	KE-35400	X	X
Sodium dimethyldithiocarbamate	128-04-1	X	X	204-876-7	-	-	KE-31429	X	X
Ethyl alcohol	64-17-5	X	X	200-578-6	-	-	KE-13217	X	X
Diethylene glycol dimethyl ether	111-96-6	X	X	203-924-4	-	-	KE-27705	X	X

Sulfuric acid	7664-93-9	X	X	231-639-5	-	-	KE-32570	X	X
Petroleum distillates, hydrotreated middle	64742-46-7	X	X	265-148-2	-	-	KE-12554	X	X
Sodium	7440-23-5	X	X	231-132-9	-	-	KE-31338	X	X
Naphthalene	91-20-3	X	X	202-049-5	-	-	KE-25545	X	X
Mercuric nitrate	10045-94-0	X	X	233-152-3	-	-	KE-23127	X	X

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	PICCS	ISHL	ENCS
Water	7732-18-5	X	ACTIVE	X	-	X	-	X
Water	7732-18-5	X	ACTIVE	X	-	X	-	X
Sodium dimethyldithiocarbamate	128-04-1	X	ACTIVE	X	-	X	X	X
Ethyl alcohol	64-17-5	X	ACTIVE	X	-	X	X	X
Diethylene glycol dimethyl ether	111-96-6	X	ACTIVE	X	-	X	X	X
Sulfuric acid	7664-93-9	X	ACTIVE	X	-	X	X	X
Petroleum distillates, hydrotreated middle	64742-46-7	X	ACTIVE	X	-	X	-	-
Sodium	7440-23-5	X	ACTIVE	X	-	X	X	X
Naphthalene	91-20-3	X	ACTIVE	X	-	X	X	X
Mercuric nitrate	10045-94-0	X	ACTIVE	X	-	X	X	-

**Legend:** X - Listed '-' - Not Listed

**KECL** - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

## Section 16 - Other Information

**This safety data sheet complies with the requirements of the EPA Hazardous Substances (Hazard Classification) Notice 2020 and WorkSafe New Zealand Regulations**

### Legend

**NZIoC** - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**IECSC** - Chinese Inventory of Existing Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**NZS 5433:2020** - Transport of Dangerous Goods on Land

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**WEL** - Workplace Exposure Limit

**DNEL** - Derived No Effect Level

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**VOC** - (Volatile Organic Compound)

**AICS** - Australian Inventory of Chemical Substances

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**CAS** - Chemical Abstracts Service

**ACGIH** - American Conference of Governmental Industrial Hygienists

**PNEC** - Predicted No Effect Concentration

**OECD** - Organisation for Economic Co-operation and Development

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**ADG** - Australian Code for the Transport of Dangerous Goods by Road and Rail

**LC50** - Lethal Concentration 50%

**ATE** - Acute Toxicity Estimate

**RPE** - Respiratory Protective Equipment

**NOEC** - No Observed Effect Concentration

**BCF** - Bioconcentration factor

**PBT** - Persistent, Bioaccumulative, Toxic

### Key literature references and sources for data

HSNO classifications provided in the New Zealand Chemical Classification Information Database (CCID).

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

EPA Guide to classifying hazardous substances in New Zealand

EPA - Assigning a product to an existing HSNO approval guide

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

**Physical hazards**

On basis of test data

**Health Hazards**

Calculation method

**Environmental hazards**

Calculation method

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**Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

**Revision Date**

10-Oct-2024

**Revision Summary**

Update to GHS format

**Disclaimer**

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## End of Safety Data Sheet