

# SAFETY DATA SHEET



## Vetadine PVP Iodine Spray

Version 1.0      Revision Date: 23.06.2020      SDS Number: 122000008370      Date of last issue: -  
Date of first issue: 23.06.2020

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### Section 1: Identification

#### 1.1 Product identifier

Vetadine PVP Iodine Spray

HSNO Approval Number : HSR001995

ACVM number : A003320

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Disinfectants

#### 1.3 Details of the supplier of the safety data sheet

##### Company

Elanco New Zealand  
Unit A, 123 Ormiston Road  
AUCKLAND  
NEW ZEALAND  
+64-9-272 5420  
elanco\_sds@elanco.com

#### 1.4 Emergency telephone number

**In case of emergency:** CHEMTREC International: +1 703-527-3887 (24 hours)  
or +64-0800 425 459 (Local toll free)

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### Section 2: Hazard identification

#### GHS Classification

Flammable Liquids : 3.1B

Skin irritation : 6.3B

Eye irritation : 6.4A

Skin sensitisation : 6.5B

Aquatic toxicity (Acute or Chronic) : 9.1C

#### GHS label elements

Hazard pictograms :



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Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H316 Causes mild skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.  
P103 Read label before use.

**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/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P235 + P410 Keep cool. Protect from sunlight.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.

**Response:**  
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

### Other hazards which do not result in classification

None known.

### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Ethanol	64-17-5	>= 90 -<= 100
PVP Iodine	25655-41-8	>= 2,5 -< 10
Methanol	67-56-1	>= 1 -< 10
Isopropyl myristate	110-27-0	>= 1 -< 10

### Section 4: First-aid measures

General advice : Take off all contaminated clothing immediately.

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You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24hr emergency service).

- If inhaled : Remove to fresh air.  
Call a physician immediately.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
If skin reactions occur, contact a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : No information available.

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### Section 5: Fire-fighting measures

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)
- Specific extinguishing methods : Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

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### Section 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
No special precautions required.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechani-

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cally and fill into labeled, closable containers.

### Section 7: Handling and storage

- Advice on protection against fire and explosion : No special protective measures against fire required.
- Advice on safe handling : Avoid formation of aerosol.  
Use with local exhaust ventilation.  
Avoid contact with skin, eyes and clothing.
- Conditions for safe storage : For storage suitable stores with adequate product-reception volume must be used.  
During handling local official regulations must be observed in order to avert impairment of water by the product.

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	WES-TWA	1.000 ppm 1.880 mg/m <sup>3</sup>	NZ OEL
		WES-TWA	1.000 ppm 1.880 mg/m <sup>3</sup>	NZ OEL
		STEL	1.000 ppm	ACGIH
		STEL	1.000 ppm	ACGIH
Methanol	67-56-1	WES-TWA	200 ppm 262 mg/m <sup>3</sup>	NZ OEL
	Further information: Exposure can also be estimated by biological monitoring, Skin absorption			
		WES-TWA	200 ppm 262 mg/m <sup>3</sup>	NZ OEL
	Further information: Exposure can also be estimated by biological monitoring, Skin absorption			
		WES-STEL	250 ppm 328 mg/m <sup>3</sup>	NZ OEL
	Further information: Exposure can also be estimated by biological monitoring, Skin absorption			
		WES-STEL	250 ppm 328 mg/m <sup>3</sup>	NZ OEL
	Further information: Exposure can also be estimated by biological monitoring, Skin absorption			
		TWA	200 ppm	ACGIH
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		STEL	250 ppm	ACGIH

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### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methanol	67-56-1	Methyl alcohol	Urine	End of shift	15 mg/l	NZ BEI
		Methyl alcohol	Urine	End of shift	15 mg/l	NZ BEI
		Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI
		Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

### Personal protective equipment

- Respiratory protection : Recommended respiratory protection: full mask with filter ABEK-ST (ABEK-P3)
- Hand protection  
Material : Hand protection: protective gloves for chemicals made of Baypren, nitrile rubber or PVC wear
- Remarks : Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.
- Eye protection : Safety glasses
- Protective measures : Wear suitable protective equipment.

### Section 9: Physical and chemical properties

- Appearance : liquid
- Flash point : 14 °C
- Density : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Explosive properties : No statements available.

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Oxidizing properties	:	No data available
Impact sensitivity	:	No data available
Minimum ignition energy	:	No data available

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### Section 10: Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	No data available
Possibility of hazardous reactions	:	No data available
Conditions to avoid	:	No data available
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> )

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### Section 11: Toxicological information

#### Acute toxicity

##### **Product:**

Acute oral toxicity	:	Acute toxicity estimate (ATE): > 5.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate (ATE): > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate (ATE): > 5.000 mg/kg Method: Calculation method

##### **Components:**

##### **Ethanol:**

Acute oral toxicity	:	LD50 (Rat): 10.470 mg/kg Method: OECD 401
Acute dermal toxicity	:	LD50 (Rabbit): 15.800 mg/kg

##### **Methanol:**

Acute oral toxicity	:	LD50 (Rat): > 1.187 - 2.769 mg/kg Method: Standard acute method
Acute inhalation toxicity	:	LC50 (Rat): 128,2 mg/l, 98000 ppm Exposure time: 4 h

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Test atmosphere: vapour  
Method: Standard acute method

Acute dermal toxicity : Method: Expert judgement  
Assessment: The component/mixture is toxic after single contact with skin.

### **Isopropyl myristate:**

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD 401  
GLP: yes  
Assessment: No adverse effect has been observed in acute toxicity tests.  
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat): > 5,3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol  
Test substance: Data on a comparable substance  
GLP: yes  
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Acute toxicity (other routes of administration) : LD50 (Rat): > 10 mg/kg  
Application Route: Intraperitoneal

LD50 (Mouse): > 50.200 mg/kg  
Application Route: Subcutaneous

### **Skin corrosion/irritation**

#### **Components:**

##### **Ethanol:**

Species : Rabbit  
Method : OECD 404  
Result : No skin irritation

##### **Methanol:**

Species : Rabbit  
Method : BASF-Test  
Result : No skin irritation

##### **Isopropyl myristate:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD 404  
Result : Mild skin irritation

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### Serious eye damage/eye irritation

#### Components:

##### **Ethanol:**

Result : Irritating to eyes.

##### **Methanol:**

Species : Rabbit  
Result : Moderate eye irritation  
Assessment : The available study results do not lead to a GHS classification  
Method : BASF-Test

##### **Isopropyl myristate:**

Species : Rabbit  
Result : Mild eye irritation  
Method : OECD 405  
Remarks : The available study results do not lead to a GHS classification

### Respiratory or skin sensitisation

#### Components:

##### **Ethanol:**

Test Type : Skin sensitisation  
Species : Guinea pig  
Method : Local lymph node assay (LLNA)  
Result : Does not cause skin sensitisation.

##### **Methanol:**

Species : Guinea pig  
Method : OECD 406  
Result : Did not cause sensitisation on laboratory animals.

##### **Isopropyl myristate:**

Test Type : Skin sensitisation  
Species : Guinea pig  
Method : OECD 406  
Result : Does not cause skin sensitisation.

Remarks : Human experience  
Patch test on human volunteers did not demonstrate sensitisation properties.

### Chronic toxicity

### Germ cell mutagenicity

#### Components:

##### **Ethanol:**

Genotoxicity in vitro : Test Type: Ames test



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Test system: Salmonella typhimurium  
Method: OECD 471  
Result: negative

Test Type: Mouse lymphoma assay  
Method: OECD 476  
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vivo  
Species: Mouse  
Method: OECD 478  
Result: ambiguous

Test Type: Micronucleus test  
Species: Mouse  
Method: OECD 474  
Result: negative

### **Methanol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Method: OECD 471  
Result: No evidence of a genotoxic effect.

Test Type: V79-HPRT Forward Mutation Assay  
Test system: Hamster V79-cells  
Method: OECD 476  
Result: No evidence of a genotoxic effect.

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Result: No evidence of a genotoxic effect.

### **Isopropyl myristate:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative

## **Carcinogenicity**

### **Components:**

#### **Ethanol:**

Result : Animal testing did not show any carcinogenic effects.

#### **Methanol:**

Species : Rat  
Application Route : Inhalation  
Method : OECD 453  
Result : Animal testing did not show any carcinogenic effects.

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### Reproductive toxicity

#### Components:

##### **Ethanol:**

Effects on fertility : Species: Mouse  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 15 %  
General Toxicity F1: NOAEL: 10 %  
General Toxicity F2: NOAEL: < 15 %  
Method: OECD 416  
Result: Animal testing did not show any effects on fertility.

##### **Methanol:**

Effects on fertility : Species: Rat  
Application Route: Inhalation  
General Toxicity - Parent: NOAEL: 1,3 mg/l  
General Toxicity F1: NOAEL: 0,13 mg/l  
General Toxicity F2: NOAEL: 0,13 mg/l  
Method: OECD 416

Effects on foetal development : Species: Rat  
Application Route: Inhalation  
Method: OECD 414  
Result: Did not show teratogenic effects in animal experiments.

Species: Mouse  
Application Route: Oral  
Developmental Toxicity: NOAEL: 5.000 mg/kg body weight  
Method: OECD 414  
Result: Evidence of an embryotoxic effect in animal studies at doses which are not harmful to the parent animals.

Species: Mouse  
Application Route: Inhalation  
Method: OECD 414  
Result: Evidence of an embryotoxic effect in animal studies at doses which are not harmful to the parent animals.

### STOT - single exposure

#### Components:

##### **Methanol:**

Target Organs : Eyes, Central nervous system  
Assessment : Causes damage to organs.

### Repeated dose toxicity

#### Components:

##### **Methanol:**

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Species : Monkey  
          : 10000 ppm  
LOAEL : 3,9 mg/l, 3000 ppm  
Application Route : inhalation (vapour)  
Exposure time : 20 days 21 h  
Number of exposures : Once daily  
Symptoms : Coma, Fatality

Species : Rat  
NOAEL : 5000 ppm  
LOAEL : 500 ppm  
Application Route : inhalation (vapour)  
Exposure time : 28-day  
Number of exposures : 6 hours a day, 5 days per week

### Isopropyl myristate:

Species : Rat  
NOAEL : 1.000 mg/kg  
Application Route : Oral  
Exposure time : 28-day  
Number of exposures : Once daily  
Method : OECD 407  
Remarks : Subacute toxicity

### Experience with human exposure

#### Components:

##### **Methanol:**

General Information : Breathing of the fumes may lead to narcotic symptoms.

#### Further information

#### Components:

##### **Ethanol:**

Remarks : Breathing of the fumes may lead to narcotic symptoms.

Remarks : If inhaled:  
Headache  
Vomiting  
Nausea

Remarks : After absorption of large quantities  
hypotension  
Coma  
Unconsciousness  
respiratory paralysis

##### **Methanol:**

Remarks : Dermal absorption possible

Remarks : After absorption

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Headache  
Drowsiness  
Dizziness  
drowsiness  
Unconsciousness  
Coma

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### Section 12: Ecological information

#### Ecotoxicity

##### Components:

##### **Ethanol:**

Toxicity to microorganisms : Toxic limit concentration (Pseudomonas putida): 6.500 mg/l

##### **Methanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 28.100 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity

Toxicity to microorganisms : EC0 (Pseudomonas putida): 6.600 mg/l

##### **Isopropyl myristate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 8.400 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD 202

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): >= 100 mg/l  
Exposure time: 21 d  
Test Type: Reproductive toxicity  
Method: OECD 202

EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 21 d  
Test Type: Reproductive toxicity  
Method: OECD 202

Toxicity to microorganisms : EC50 (Pseudomonas putida): 10.000 mg/l  
Exposure time: 16 h  
Test Type: Growth inhibition  
Method: DIN 38412

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### Persistence and degradability

#### Components:

##### **Ethanol:**

Biodegradability : Result: rapidly biodegradable

##### **Methanol:**

Biodegradability : aerobic  
Result: rapidly biodegradable  
Biodegradation: 95 %  
Exposure time: 20 d  
Method: Directive 67/548/EEC Annex V, C.4.E.

Biochemical Oxygen Demand (BOD) : 1.067 mg/g  
Incubation time: 5 d

BOD/COD : BOD/COD: 71,5 %

ThOD : 1.498 mg/g

##### **Isopropyl myristate:**

Biodegradability : aerobic  
Chemical oxygen demand  
Result: Readily biodegradable.  
Biodegradation: 91,4 %  
Exposure time: 28 d  
Method: OECD 301 B

### Bioaccumulative potential

#### Components:

##### **Ethanol:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0,320

##### **Isopropyl myristate:**

Bioaccumulation : Bioconcentration factor (BCF): 2.765  
Method: Calculation method  
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Partition coefficient: n-octanol/water : log Pow: 7,71

### Mobility in soil

No data available

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### Other adverse effects

#### **Product:**

Additional ecological information : Do not allow to enter surface waters or groundwater.

#### **Components:**

##### **Isopropyl myristate:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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## Section 13: Disposal considerations

### Disposal methods

Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.

18 02 08: Drugs other than those mentioned in 18 02 07.

Contaminated packaging : Contaminated, empty containers are to be treated in the same way as the contents.

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## Section 14: Transport information

### IATA-DGR

UN/ID No. : UN 1170  
Proper shipping name : ETHANOL SOLUTION  
Class : 3  
Packing group : II  
Labels : 3

### IMDG-Code

UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### Section 15: Regulatory information

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

##### HSNO Approval Number

HSR001995

##### HSW Controls

Approved handler certificate required

HSNO tracking not required.

Refer to EPA user guide to the HSNO control regulations for further information.

Montreal Protocol (Ozone Depleting Substances) : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

#### The components of this product are reported in the following inventories:

NZIoC : On the inventory, or in compliance with the inventory

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### Section 16: Other information

Date format : dd.mm.yyyy

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
NZ BEI : New Zealand. Biological Exposure Indices  
NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average  
NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Or-

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ganisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN