

# SAFETY DATA SHEET



## TRIPSOL®

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### Section 1: Identification

Product name : TRIPSOL®

Other means of identification : ABAMECTIN + ACRINATHRIN 12.6/22.5 G/L EW

#### Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Company : FMC New Zealand Ltd

Address : Level 5, 3 Te Kehu Way, Mount Wellington  
1060 Auckland  
New Zealand

Telephone : +640800658080

Telefax : (09)-271-2961

E-mail address : SDS-Info@fmc.com

Emergency telephone number : For leak, fire, spill or accident emergencies, call:  
0800 734 607 (Ixm)

Medical emergency:  
0800 764 766 (NZ Poisons Information Centre)  
0800 111174 (24 hour Medical Emergency)  
0800 387668 (Transport Emergency)

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### Section 2: Hazard identification

#### GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 3

Serious eye damage/eye irritation : Category 2

Skin sensitisation : Category 1

Carcinogenicity : Category 2

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Reproductive toxicity : Category 2

Effects on or via lactation

Specific target organ toxicity - repeated exposure : Category 2

Hazardous to the aquatic environment - acute hazard : Category 1

Hazardous to the aquatic environment - chronic hazard : Category 1

Hazardous to the environment : Hazardous to terrestrial vertebrates

Hazardous to the environment : Hazardous to terrestrial invertebrates

### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H362 May cause harm to breast-fed children.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.  
H433 Harmful to terrestrial vertebrates.  
H443 Harmful to terrestrial invertebrates.

Precautionary statements : P103 Read carefully and follow all instructions.

### Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist or vapours.  
P263 Avoid contact during pregnancy and while nursing.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

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.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

### Disposal:

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

### 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)
Acrinathrin	101007-06-1	>= 1 -< 2.5
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 1 -< 2.5
Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified	64742-55-8	>= 1 -< 10
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	>= 1 -< 2.5
Tristyryl phenol-polyethylene glycol-phosphoric acid ester	114535-82-9	>= 1 -< 2.5
octan-1-ol	111-87-5	>= 2.5 -< 10

## Section 4: First-aid measures

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| General advice  | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| If inhaled  | : If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.<br>If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact                                     | : If on clothes, remove clothes.<br>Do not start with flushing with water, but wipe off with dry cloth or using talcum powder, followed by washing with water and soap. Thereafter apply lidocaine, vitamin E cream or fatty skin care oil or cream.<br>Get medical attention if irritation develops and persists.   |
| In case of eye contact                                      | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.  |
| If swallowed  | : Do not induce vomiting without medical advice.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.  |
| Most important symptoms and effects, both acute and delayed | : Exposure causes symptoms of nervous system depression.<br>High doses cause death by respiratory failure.<br>Acrinathrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia).<br>Harmful if swallowed.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>Toxic if inhaled.<br>Suspected of causing cancer.<br>Suspected of damaging fertility or the unborn child.<br>May cause harm to breast-fed children.<br>May cause damage to organs through prolonged or repeated exposure. |
| Protection of first-aiders                                  | : First Aid responders should pay attention to self-protection and use the recommended protective clothing<br>Avoid inhalation, ingestion and contact with skin and eyes.<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment.   |
| Notes to physician  | : Treat symptomatically.<br>As soon as a feeling of tingling is noted in any skin area (see  |

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section 11), it is recommended to immediately apply lidocaine or a vitamin E cream. For this purpose lidocaine or vitamin E cream should be available at the workplace.

If allowed to penetrate the skin, the active ingredient acrinathrin in this product may cause an irritation similar to sunburn. The substance will be drawn into a non-polar environment such as a fat based oil or cream. Vitamin E cream has been reported to be beneficial against other pyrethroid insecticides. Water is highly polar and will not decrease, but may prolong the irritation. Hot water may increase the pain. Since abamectin is believed to enhance GABA activity based on animal studies, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid).

**Section 5: Fire-fighting measures**

- |   |   |   |
|---|---|---|
| Suitable extinguishing media                  | : | Dry chemical, CO <sub>2</sub> , water spray or regular foam.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Unsuitable extinguishing media                | : | Do not spread spilled material with high-pressure water streams.<br>High volume water jet   |
| Specific hazards during fire-fighting         | : | Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products                 | : | Thermal decomposition can lead to release of irritating gases and vapours.<br>Carbon oxides<br>Nitrogen oxides (NO <sub>x</sub> )<br>Fluorine compounds<br>Oxides of phosphorus   |
| Specific extinguishing methods                | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : | Firefighters should wear protective clothing and self-contained breathing apparatus.  |
| Hazchem Code                                  | : | 3Z  |

**Section 6: Accidental release measures**

- |   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.<br>Use personal protective equipment.<br>If it can be safely done, stop the leak.<br>Do not touch or walk through the spilled material.<br>Never return spills in original containers for re-use.<br>Mark the contaminated area with signs and prevent access to unauthorized personnel. |
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Only qualified personnel equipped with suitable protective equipment may intervene.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### Section 7: Handling and storage

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
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Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified	64742-55-8	WES-TWA (Mist)	5 mg/m3	NZ OEL
		WES-STEL (Mist)	10 mg/m3	NZ OEL
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

### Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

### Section 9: Physical and chemical properties

Physical state : liquid

Form : liquid

Colour : milky, white, cream

Odour : Antiseptic smell

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Odour Threshold	:	not determined
pH	:	6.09 Method: CIPAC MT 75.3 (1% solution in water)
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	109.3 °C  Method: Regulation (EC) No. 440/2008, Annex, A.9
Evaporation rate	:	not determined
Self-ignition	:	383 °C Method: Tested according to Directive 92/69/EEC.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	Not available for this mixture.
Relative vapour density	:	not determined
Relative density	:	0.9607 (20 °C)
Density	:	No data available
Bulk density	:	No data available
Solubility(ies)		
Water solubility	:	Miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not available for this mixture.
Auto-ignition temperature	:	No data available
Decomposition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	58.3 mPa.s ( 20 °C)  40.3 mPa.s ( 40 °C)



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Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing
Surface tension	: 38 mN/m, Regulation (EC) No. 440/2008, Annex, A.5
Particle size	: Not applicable

### Section 10: Stability and reactivity

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks. Avoid formation of aerosol.
Incompatible materials	: Avoid strong acids, bases, and oxidizers
Hazardous decomposition products	: Stable under recommended storage conditions.

### Section 11: Toxicological information

#### Acute toxicity

Harmful if swallowed.  
Toxic if inhaled.

#### Product:

Acute oral toxicity	: LD50 (Rat, female): 365.9 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	: LC50 (Rat, female): 0.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation.  LC50 (Rat, male): > 2.12 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

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Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **Components:**

#### **Acrinathrin:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 1.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Acute oral toxicity : LD50 (Rat): 340 mg/kg  
Method: OECD Test Guideline 425  
Symptoms: Fatality

LD50 (Rat): 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423  
Symptoms: ataxia, apathy, Tremors, Fatality

Acute inhalation toxicity : LC50 (Rat, male): 0.052 - 0.54 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, female): 1,414 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: apathy, ataxia, Fatality

LD50 (Rat): 944 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: apathy, ataxia, Breathing difficulties, Fatality

#### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

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Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

### **Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg  
Remarks: Based on data from similar materials

### **Tristyryl phenol-polyethylene glycol-phosphoric acid ester:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

### **octan-1-ol:**

Acute oral toxicity : LD50 (Rat, male): 1,800 mg/kg  
LD50 (Rat, female): 720 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.05 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: US EPA Test Guideline OPPTS 870.1300  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 1,500 - < 2,000 mg/kg

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritant

### **Components:**

#### **Acrinathrin:**

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

#### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Result : slight or no skin irritation.

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### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Species	:	Rabbit
Result	:	No skin irritation
Remarks	:	Based on data from similar materials

### **Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

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

### **Tristyryl phenol-polyethylene glycol-phosphoric acid ester:**

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

### **octan-1-ol:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Mild skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Product:**

Species	:	Rabbit
Result	:	Moderate eye irritation
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 405

#### **Components:**

##### **Acrinathrin:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Species	:	Rabbit
Result	:	Slight or no eye irritation
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405

### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
Remarks	:	Based on data from similar materials

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**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Species	: Rabbit
Result	: Irreversible effects on the eye

**Tristyryl phenol-polyethylene glycol-phosphoric acid ester:**

Species	: Rabbit
Result	: Eye irritation
Method	: OECD Test Guideline 405

**octan-1-ol:**

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days
Method	: OECD Test Guideline 405

**Respiratory or skin sensitisation****Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Product:**

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: May cause sensitisation by skin contact.

**Components:****Acrinathrin:**

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Does not cause skin sensitisation.

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

**Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

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**Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Exposure routes	: Skin contact
Result	: Does not cause skin sensitisation.

**octan-1-ol:**

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.
Remarks	: Based on data from similar materials

**Chronic toxicity****Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Components:****Acrinathrin:**

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: Metabolic activation Result: positive
Genotoxicity in vivo	: Test Type: chromosome aberration assay Result: negative
Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Genotoxicity in vitro	: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
Genotoxicity in vivo	: Test Type: Micronucleus test Species: mice Result: negative GLP: yes
Germ cell mutagenicity - Assessment	: No genotoxic potential

**Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Result: negative Remarks: Based on data from similar materials
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Test Type: reverse mutation assay  
Test system: TA98  
Metabolic activation: Metabolic activation  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Species: Mouse (male and female)  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

### **octan-1-ol:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **Carcinogenicity**

Suspected of causing cancer.

#### **Product:**

Carcinogenicity - Assessment : Limited evidence of a carcinogenic effect.

#### **Components:**

##### **Acrinathrin:**

Species : Rat, female  
Method : OECD Test Guideline 453  
Result : positive

Species : Mouse  
Method : OECD Test Guideline 451  
Result : negative

Species : Rat  
Method : OECD Test Guideline 453  
Result : negative

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Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Method : OECD Test Guideline 451  
Remarks : Not classified

Method : OECD Test Guideline 453  
Remarks : Not classified

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

**Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Species : Mouse  
Application Route : Dermal  
Exposure time : 78 weeks  
Result : negative  
Remarks : Based on data from similar materials

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.  
May cause harm to breast-fed children.

**Components:****Acrinathrin:**

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

**Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Oral  
Early Embryonic Development: NOAEL: 1,000 mg/kg bw/day  
Method: OECD Test Guideline 421  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Dermal  
Teratogenicity: NOAEL: 2,000 mg/kg bw/day  
Symptoms: Maternal effects  
Result: negative  
Remarks: Based on data from similar materials



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**octan-1-ol:**

Effects on fertility : Test Type: one-generation reproductive toxicity  
Species: Rat, male and female  
Application Route: Oral  
Dose: 10, 100, 1000 mg/kg bw/day  
General Toxicity - Parent: NOAEL: 1,000 mg/kg bw/day  
General Toxicity F1: NOAEL: 1,000 mg/kg bw/day  
Result: negative

Effects on foetal development : Species: Rat  
Application Route: Oral  
Dose: 0,130,650,975,1300 mg/kg bw/day  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: LOAEL: 650 mg/kg bw/day  
Embryo-foetal toxicity: NOAEL: 1,300 mg/kg bw/day  
Symptoms: Maternal effects  
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**Components:****Acrinathrin:**

Remarks : No significant adverse effects were reported

**STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Product:**

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Components:****abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Target Organs : Nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

**octan-1-ol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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### Repeated dose toxicity

#### Components:

##### **Acrinathrin:**

Species	: Rat
LOEL	: 9 mg/kg
Application Route	: Oral
Exposure time	: 90 day
Target Organs	: Skin, Nervous system

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Species	: Dog
LOEL	: 0.5 mg/kg
Application Route	: Oral
Exposure time	: 18 weeks
Method	: OECD Test Guideline 409

Species	: Rat
LOAEC	: 0.0027 mg/l
Application Route	: Inhalation
Exposure time	: 30 d

Species	: Rat, female
NOAEL	: 3.0 mg/kg
LOAEL	: 6.7 mg/kg
Application Route	: Oral
Exposure time	: 28 d
Dose	: 0, 3, 6.7, 8.9, 11.5 mg/kg bw/day
Method	: OECD Test Guideline 407
GLP	: yes
Symptoms	: Tremors, Fatality

Species	: Rat, female
NOAEL	: 3.8 mg/kg
LOAEL	: 9.3 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Dose	: 0, 1.8, 3.8, 9.3, 9.6 mg/kg bw/day
Method	: OECD Test Guideline 408
GLP	: yes

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Species	: Rat, male
LOAEL	: 125 mg/kg
Application Route	: Oral - gavage
Exposure time	: 13 weeks
Remarks	: Effects are of limited toxicological significance. Based on data from similar materials

Species	: Rat, male and female
NOAEC	: > 0.98 mg/l
Application Route	: inhalation (dust/mist/fume)

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Exposure time : 4 weeks  
Remarks : No significant adverse effects were reported  
Based on data from similar materials

### octan-1-ol:

Species : Rat, male  
NOAEL : 1127 mg/kg bw/day  
Application Route : Oral  
Exposure time : 13 Weeks  
Dose : 182, 374, 1127 mg/kg bw/day

Species : Rat, female  
NOAEL : 1243 mg/kg bw/day  
Application Route : Oral  
Exposure time : 13 Weeks  
Dose : 216, 427, 1243 mg/kg bw/day

### Aspiration toxicity

Based on available data, the classification criteria are not met.

### Components:

#### Acrinathrin:

The substance does not have properties associated with aspiration hazard potential.

#### abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

No aspiration toxicity classification

#### Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

May be fatal if swallowed and enters airways.

### Further information

### Product:

Remarks : Low exposure can cause non-specific symptoms (e.g. nausea, vomiting, diarrhoea, itching). Higher doses can cause symptoms of nervous system depression, such as pupil dilation, excitation, incoordination, tremors, convulsions, lethargy, coma. High doses can cause death by respiratory failure. Inhalation of the substance/product is uncomfortable and can result in coughing and difficulty breathing. This effect should also be taken as a warning to avoid further exposure.

### Components:

#### Acrinathrin:

Remarks : On contact, the active ingredient can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aero-

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sol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

Inhalation of the substance/product is uncomfortable and can result in coughing and difficulty breathing. This effect should also be taken as a warning to avoid further exposure.

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Remarks : Exposure causes symptoms of nervous system depression, such as pupil dilation, vomiting, excitation, incoordination, tremors, lethargy, coma. High doses cause death by respiratory failure.

**Section 12: Ecological information****Ecotoxicity****Product:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.307 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.00644 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (green algae)): 60.8 mg/l Exposure time: 72 h
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): 1,875 mg/kg Exposure time: 14 d
Toxicity to terrestrial organisms	: LD50 (Coturnix japonica (Japanese quail)): > 2,000 mg/kg  LC50 (Apis mellifera (bees)): 0.153 µg/bee Exposure time: 48 h End point: Acute oral toxicity  LC50 (Apis mellifera (bees)): 0.218 µg/bee Exposure time: 48 h End point: Acute contact toxicity

**Ecotoxicology Assessment**

Other organisms relevant to the environment : Harmful to terrestrial vertebrates., Harmful to terrestrial invertebrates.

**Components:****Acrinathrin:**

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Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0061 mg/l Exposure time: 96 h  LC50 (Pimephales promelas (fathead minnow)): 0.002 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.000022 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	IC50 (Scenedesmus subspicatus): > 100 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	10,000
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.0063 µg/l Exposure time: 21 d
M-Factor (Chronic aquatic toxicity)	:	10,000
Toxicity to soil dwelling organisms	:	LC50 (Eisenia fetida (earthworms)): > 186 mg/kg Exposure time: 14 d
Toxicity to terrestrial organisms	:	LD50 (Apis mellifera (bees)): 0.08 µg/bee End point: Acute contact toxicity

### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 0.027 - 0.044 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0008 - 0.0015 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes  EC50 (Daphnia magna (Water flea)): 0.0002 - 0.00028 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes  EC50 (Daphnia pulex (Water flea)): 0.000159 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes

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		NOEC ( <i>Daphnia pulex</i> (Water flea)): 0.000089 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC50 ( <i>Scenedesmus capricornutum</i> (fresh water algae)): 56.68 - 85.41 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic toxicity)	:	NOEC ( <i>Pimephales promelas</i> (fathead minnow)): 0.0044 mg/l Exposure time: 28 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC ( <i>Daphnia magna</i> (Water flea)): 0.00003 mg/l End point: reproduction Exposure time: 21 d Method: OECD Test Guideline 202
Toxicity to soil dwelling organisms	:	LC50 ( <i>Eisenia fetida</i> (earthworms)): 14.24 - 18.37 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207  Method: OECD Test Guideline 216 Remarks: No significant adverse effect on nitrogen mineralization.  Method: OECD Test Guideline 217 Remarks: No significant adverse effect on carbon mineralization.
Toxicity to terrestrial organisms	:	LD50 ( <i>Apis mellifera</i> (bees)): 0.00071 - 0.00099 µg/bee Exposure time: 48 h End point: Acute contact toxicity Method: OECD Test Guideline 214  LD50 ( <i>Coturnix japonica</i> (Japanese quail)): > 5000 ppm Remarks: Dietary

### Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

### Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Toxicity to fish	:	LL50 ( <i>Pimephales promelas</i> (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other	:	EL50 ( <i>Daphnia magna</i> (Water flea)): > 10,000 mg/l

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aquatic invertebrates	Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOELR (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 14 d Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOELR (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
Toxicity to microorganisms	: NOEL: > 1.93 mg/l Exposure time: 0.16 h

### Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 10 - 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203  LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 1 - 10 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (algae): > 1 - 10 mg/l Exposure time: 72 h  EC10 (algae): > 0.1 - < 1 mg/l

### Tristyryl phenol-polyethylene glycol-phosphoric acid ester:

Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): 100 - 500 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h

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Method: OECD Test Guideline 201

### octan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 13.3 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 20 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 4.2 mg/l  
Exposure time: 48 h  
Test Type: static test

EC50 (Desmodesmus subspicatus (green algae)): 6.5 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : (Protozoa): 44 mg/l  
Exposure time: 72 h  
Test Type: Cell multiplication inhibition test  
Remarks: Based on data from similar materials

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

#### Components:

##### **Acrinathrin:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 1 d

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Remarks: It undergoes degradation in the environment and in waste water treatment plants.

##### **Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:**

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 31 %



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Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

### **Alcohols, C11-14-iso-, C13-rich, ethoxylated:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

### **Tristeryl phenol-polyethylene glycol-phosphoric acid ester:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 30 - 40 %  
Method: OECD Test Guideline 302B

### **octan-1-ol:**

Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 82.2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### **Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: No data is available on the product itself.

#### **Components:**

##### **Acrinathrin:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 538  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 5.24 (25 °C)

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Bioaccumulation : Species: Danio rerio (zebra fish)  
Bioconcentration factor (BCF): 54  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 5.5

##### **octan-1-ol:**

Partition coefficient: n-octanol/water : log Pow: 3.5 (23 °C)  
pH: 5.7

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### Mobility in soil

#### Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

#### Components:

##### **Acrinathrin:**

Distribution among environmental compartments : Remarks: immobile

##### **abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

Distribution among environmental compartments : Remarks: Mobile in soils

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

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## Section 13: Disposal considerations

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## Section 14: Transport information

### International Regulations

#### **UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Abamectin, Acrinathrin)

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Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Abamectin, Acrinathrin)

Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Abamectin, Acrinathrin)

Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

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

Not applicable for product as supplied.

### National Regulations

#### NZS 5433

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Abamectin, Acrinathrin)

Class : 9  
Packing group : III  
Labels : 9  
Hazchem Code : 3Z  
Marine pollutant : yes

### 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

HSR100716

ACVM Approval No.: P008598

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

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

TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not applicable
TECI	: Not in compliance with the inventory

### Section 16: Other information

Revision Date	: 02.04.2025
Date format	: dd.mm.yyyy

#### Full text of other abbreviations

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ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; 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 Organisation 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; TECI - Thailand Existing Chemicals Inventory; 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

### Disclaimer

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