

# SAFETY DATA SHEET

## Zapp Encore



Version 1.0      Revision Date: 05.03.2019      SDS Number: 122000017765      Date of last issue: -  
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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1 Product identifier

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HSNO Approval Number : HSR100103

ACVM number : A010400

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

Use of the Substance/Mixture : Veterinary medicine

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

###### Company

Bayer New Zealand Limited  
3 Argus Place  
0627 HILLCREST, AUCKLAND, NEW ZEALAND  
NEW ZEALAND  
Tel.: 0800 652 488  
Fax: 0800 229 838  
Mail: [bhc-md-oeko@bayer.com](mailto:bhc-md-oeko@bayer.com)

##### 1.4 Emergency telephone number

In case of emergency: 0800 734 607 IXOM SH&E Shared services (24hr)

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

3.1: Flammable Liquids : Category D

6.3: Skin irritation : Category A

6.4: Eye irritation : Category A

6.8: Toxic to Reproduction : Category A

6.8: Toxic to Reproduction : Category C

6.9: Specific Target Organ Toxicity (Oral) : Category B

9.1: Aquatic toxicity (Acute or Chronic) : Category A

9.2: Ecotoxic to soil environment : Category B

9.3: Ecotoxic to terrestrial : Category B

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vertebrates

9.4: Ecotoxic to terrestrial invertebrates : Category A

### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H227 Combustible liquid.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H360 May damage fertility or the unborn child.  
H362 May cause harm to breast-fed children.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H410 Very toxic to aquatic life with long lasting effects.  
H422 Toxic to the soil environment.  
H432 Toxic to terrestrial vertebrates.  
H441 Very toxic to terrestrial invertebrates.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

### Other hazards which do not result in classification

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Dipropylene glycol methyl ether	34590-94-8	>= 50 -< 70
1-Methyl-2-pyrrolidone	872-50-4	>= 30 -< 50
Alsystin / Triflumuron	64628-44-0	>= 2,5 -< 10
Imidacloprid	138261-41-3	>= 2,5 -< 10

## SECTION 4. FIRST AID MEASURES

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- General advice : Take off all contaminated clothing immediately.  
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.  
No information available.
- Notes to physician : No information available.
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### SECTION 5. FIREFIGHTING 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.
- 

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Use with adequate ventilation.  
No special precautions required.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Suppress (knock down) gases/vapours/mists with a water spray jet.  
Soak up with inert absorbent material (e.g. sand, silica gel,
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acid binder, universal binder, sawdust).  
Place in closed containers. Label for proper disposal.

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No special protective measures against fire required.
- Advice on safe handling : Industrial uses:  
Avoid formation of aerosol.  
Use with local exhaust ventilation.  
Avoid contact with skin, eyes and clothing.
- Hygiene measures : Cleanliness Guidelines (GMP) for manufacturing of drugs must be observed!
- 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
Dipropylene glycol methyl ether	34590-94-8	WES-STEL	150 ppm 909 mg/m <sup>3</sup>	NZ OEL
Further information: Skin absorption				
		WES-TWA	100 ppm 606 mg/m <sup>3</sup>	NZ OEL
Further information: Skin absorption				
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
1-Methyl-2-pyrrolidone	872-50-4	WES-STEL	75 ppm 309 mg/m <sup>3</sup>	NZ OEL
Further information: Skin absorption				
		WES-TWA	25 ppm 103 mg/m <sup>3</sup>	NZ OEL
Further information: Skin absorption				
Imidacloprid	138261-41-3	SUP	0,7 mg/m <sup>3</sup>	

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
1-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure)	100 mg/l	ACGIH BEI

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				ceases)		
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### 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 : No special safety precautions are required during handling of pharmaceuticals in their intended finished form (tablets or liquid formulations) by chemists, the hospital's medical staff or patients.  
For the intake of ready for use pharmaceuticals or the external use on the skin please read the label and the package leaflet. The personal protective equipment is applicable for the handling of bulk material without packaging and for incidents if an exposure by the active ingredient or hazardous components can be expected.  
Wear suitable protective equipment.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Flash point : 88 °C
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Explosive properties : No statements available.
- Oxidizing properties : No data available
- Impact sensitivity : No data available
- Minimum ignition energy : No data available

## SECTION 10. STABILITY AND REACTIVITY

- Reactivity : No data available
- Chemical stability : No data available
- Possibility of hazardous reactions : No data available

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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): 2.609 mg/kg  
Method: Calculation method

##### Components:

##### **Dipropylene glycol methyl ether:**

Acute oral toxicity : LD50 (Rat): 5.135 mg/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute inhalation toxicity : Assessment: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): >20ml/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.

##### **1-Methyl-2-pyrrolidone:**

Acute oral toxicity : LD50 (Rat): 3.600 mg/kg  
Assessment: The component/mixture is minimally toxic after single ingestion.

Acute dermal toxicity : LD50 (Rabbit): 8.000 mg/kg  
LD50 (Rat): > 5.000 mg/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.

##### **Alsystin / Triflumuron:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute inhalation toxicity : LC50 (Rat): > 5,03 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

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

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Acute toxicity (other routes of administration) : LD50 (Rat): > 5.000 mg/kg  
Application Route: Intraperitoneal

### **Imidacloprid:**

Acute oral toxicity : LD50 (Rat): 424 mg/kg  
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 5,323 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol  
Method: OECD 403  
Assessment: The component/mixture is minimally toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.

### **Skin corrosion/irritation**

#### **Components:**

##### **1-Methyl-2-pyrrolidone:**

Species: Rabbit  
Assessment: Causes skin irritation.  
Result: Skin irritation

##### **Alsystin / Triflumuron:**

Species: Rabbit  
Result: No skin irritation

##### **Imidacloprid:**

Species: Rabbit  
Result: No skin irritation

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

#### **Components:**

##### **1-Methyl-2-pyrrolidone:**

Species: Rabbit  
Result: Irritating to eyes.  
Assessment: Causes serious eye irritation.

##### **Alsystin / Triflumuron:**

Species: Rabbit  
Result: Mild eye irritation

##### **Imidacloprid:**

Species: Rabbit

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Result: No eye irritation

### Respiratory or skin sensitisation

#### Components:

##### **Dipropylene glycol methyl ether:**

Species: Human experience  
Result: Does not cause skin sensitisation.

##### **1-Methyl-2-pyrrolidone:**

Test Type: Skin sensitisation  
Remarks: Did not cause sensitisation on laboratory animals.

##### **Alsystin / Triflumuron:**

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

##### **Imidacloprid:**

Test Type: Skin sensitisation  
Species: Guinea pig  
Method: Magnusson and Kligmann maximization test  
Result: Did not cause sensitisation on laboratory animals.

### Chronic toxicity

### Germ cell mutagenicity

#### Components:

##### **Dipropylene glycol methyl ether:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

##### **1-Methyl-2-pyrrolidone:**

Genotoxicity in vitro : Test Type: Bacterial mutagenicity  
Result: No indication of mutagenic effects.

Genotoxicity in vivo : Remarks: In vivo tests did not show mutagenic effects

##### **Alsystin / Triflumuron:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Remarks: In vivo tests did not show mutagenic effects

##### **Imidacloprid:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Remarks: In vitro tests did not show mutagenic effects



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Genotoxicity in vivo : Result: No indication of mutagenic effects., No evidence of a genotoxic effect.

### Reproductive toxicity

#### Components:

##### **1-Methyl-2-pyrrolidone:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.  
Clear evidence of adverse effects on development, based on animal experiments.

### STOT - single exposure

#### Components:

##### **1-Methyl-2-pyrrolidone:**

Assessment: May cause respiratory irritation.

### STOT - repeated exposure

#### Components:

##### **Imidacloprid:**

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

### Repeated dose toxicity

#### Components:

##### **Dipropylene glycol methyl ether:**

Target Organs: Liver, Kidney  
Symptoms: Change in righting reflex, Drowsiness, Tiredness

### Further information

#### Components:

##### **1-Methyl-2-pyrrolidone:**

Remarks: Dermal absorption possible

##### **Imidacloprid:**

Pharmaceutic effects  
Remarks: Insecticide



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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**Dipropylene glycol methyl ether:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 10.000 mg/l  
Exposure time: 96 h  
Test Type: Static test
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1,919 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (Selenastrum Capricornutum (Green algae)): > 969 mg/l  
Exposure time: 96 h  
Test Type: Growth inhibition

**1-Methyl-2-pyrrolidone:**

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 24 h
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l  
Exposure time: 72 h
- Toxicity to microorganisms : EC20: > 600 mg/l  
Exposure time: 0,5 h  
Method: OECD 209

**Ecotoxicology Assessment**

- Acute aquatic toxicity : slightly water endangering

**Alsystin / Triflumuron:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 320 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity
- LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity
- LC0 (Lepomis macrochirus (Bluegill sunfish)): > 0,0208 mg/l  
Exposure time: 96 h  
Remarks: No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,0016 mg/l  
Exposure time: 48 h
- Toxicity to algae : IC50 (Desmodesmus subspicatus (green algae)): > 0,025 mg/l

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Exposure time: 72 h  
Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms : EC50 (activated sludge micro-organism): > 10.000 mg/l

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### Imidacloprid:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 237 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 85 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h

EC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1.000

Toxicity to microorganisms : EC50 (activated sludge micro-organism): > 10.000 mg/l  
Method: OECD 209

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### Persistence and degradability

#### Components:

#### Dipropylene glycol methyl ether:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 75 %  
Exposure time: 28 d  
Method: OECD 301F

Result: Readily biodegradable.  
Biodegradation: 93 %  
Exposure time: 13 d  
Method: OECD 302B

ThOD : 0,00206 mg/g

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### 1-Methyl-2-pyrrolidone:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 90 %  
Method: OECD 301E

Biochemical Oxygen Demand (BOD) : 2 mg/g  
Incubation time: 5 d

Chemical Oxygen Demand (COD) : 1.600 mg/l

ThOD : 1.939 mg/g

### Imidacloprid:

Stability in water : Degradation half life: > 1 a (25 °C) pH: 4  
Hydrolysis: at 25 °C

Degradation half life: > 1 a (25 °C) pH: 7  
Hydrolysis: at 25 °C

Degradation half life: ca. 1 h (25 °C) pH: 9  
Hydrolysis: at 25 °C

### Bioaccumulative potential

#### Components:

#### Dipropylene glycol methyl ether:

Partition coefficient: n-octanol/water : log Pow: -0,35

#### 1-Methyl-2-pyrrolidone:

Partition coefficient: n-octanol/water : log Pow: -0,46

#### Alsystin / Triflumuron:

Partition coefficient: n-octanol/water : log Pow: 4,9 (22 °C)  
Method: OECD 107

#### Imidacloprid:

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 0,57 (21 °C)  
Method: OECD 107

#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

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

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### **Components:**

#### **Imidacloprid:**

Adsorbed organic bound halogens (AOX) : Remarks: The product contains organic halogens.

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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.

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

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## **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID)  
Class : 9  
Packing group : III  
Labels : 9  
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. (IMIDACLOPRID)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : no

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

Not applicable for product as supplied.

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### National Regulations

## SECTION 15. REGULATORY INFORMATION

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

### HSNO Approval Number

HSR100103

### HSNO Controls

Approved handler certificate required

HSNO tracking required

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

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

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

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

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; CPR - Controlled Products Regulations; 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; 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

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Date format	:	dd.mm.yyyy
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
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-STEEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

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