

# SAFETY DATA SHEET



## BIFLEX AQUAMAX

Version 1.1      Revision Date: 31.07.2021      SDS Number: 50001562      Date of last issue: 30.07.2021  
Date of first issue: 30.07.2021

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BIFLEX AQUAMAX

Other means of identification : BIFENTHRIN 100 G/L SC

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

Recommended use : Termiticide and insecticide.

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Company : FMC Australasia Pty Ltd

Address : Building B, Level 2, 12 Julius Avenue,  
North Ryde NSW 2113

Telephone : +6161029887900

Emergency telephone number : For leak, fire, spill or accident emergencies, call:  
1800 033 111 (Ixm)

Medical emergency:  
1 800 033 111 (Transport and 24 h Medical information)

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Serious eye damage/eye irritation : Category 1

Skin sensitisation : Category 1

Specific target organ toxicity - repeated exposure : Category 2 (Nervous system)

#### GHS label elements

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Hazard pictograms



Signal word

: Danger

Hazard statements

: H302 + H332 Harmful if swallowed or if inhaled.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**

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.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
P314 Get medical advice/ attention if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

**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)
bifenthrin (ISO)	82657-04-3	>= 1 -< 10
propane-1,2-diol	57-55-6	< 10

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### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed or if inhaled.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.
- 

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Foam
- Unsuitable extinguishing media : High volume water jet  
  
High volume water jet
- Specific hazards during fire- : Do not allow run-off from fire fighting to enter drains or water
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fighting courses.

Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapours.  
Halogenated compounds  
Carbon oxides

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Hazchem Code : •3Z

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

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.

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### 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.  
To avoid spills during handling keep bottle on a metal tray.  
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.

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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.  
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
propane-1,2-diol	57-55-6	TWA (particulate)	10 mg/m <sup>3</sup>	AU OEL
		TWA (Total (vapour and particles))	150 ppm 474 mg/m <sup>3</sup>	AU OEL

#### Personal protective equipment

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

No personal respiratory protective equipment normally required.

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.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Colour : white, opaque

Odour : mild, like soap

pH : not determined

Melting point/range : not determined

Boiling point/boiling range : not determined

Relative density : 1.02

Bulk density : not determined

Solubility(ies)  
Water solubility : not determined

Viscosity  
Viscosity, kinematic : not determined

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

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### 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 : Protect from frost, heat and sunlight.  
No data available

Incompatible materials : Strong oxidizing agents  
Strong acids  
Strong bases  
Not applicable

Hazardous decomposition products : Stable under recommended storage conditions.

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### SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**  
Harmful if swallowed or if inhaled.

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### **Product:**

- Acute oral toxicity : LD50 (Rat, male and female): 531 mg/kg  
Remarks: Based on data from similar materials
- Acute inhalation toxicity : LC50 (Rat, male and female): 4.94 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Based on data from similar materials
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Remarks: Based on data from similar materials

### **Components:**

#### **bifenthrin (ISO):**

- Acute oral toxicity : LD50 (Rat): 53.4 mg/kg
- Acute inhalation toxicity : LC50 (Rat, female): 0.8 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403
- LC50 (Rat, male): 1.01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

#### **propane-1,2-diol:**

- Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg
- Acute inhalation toxicity : LC0 (Rabbit): 31.7 mg/l  
Exposure time: 2 h  
Test atmosphere: vapour  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

- Species : Rabbit
- Result : No skin irritation
- Remarks : Based on data from similar materials
- Remarks : Extremely corrosive and destructive to tissue.

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### Components:

#### **bifenthrin (ISO):**

Species : Rabbit  
Method : EPA OPP 81-5  
Result : No skin irritation

#### **propane-1,2-diol:**

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

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

Causes serious eye damage.

### Product:

Species : Rabbit  
Result : Irreversible effects on the eye  
Remarks : Based on data from similar materials

Remarks : May cause irreversible eye damage.

### Components:

#### **bifenthrin (ISO):**

Species : Rabbit  
Result : No eye irritation  
Method : EPA OPP 81-4

#### **propane-1,2-diol:**

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

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

### Product:

Species : Guinea pig  
Result : May cause sensitisation by skin contact.  
Remarks : Based on data from similar materials

Remarks : Causes sensitisation.



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### Components:

#### **bifenthrin (ISO):**

Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.

#### **propane-1,2-diol:**

Test Type : Maximisation Test  
Species : Guinea pig  
Result : negative

### **Chronic toxicity**

#### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **bifenthrin (ISO):**

Genotoxicity in vitro : Test system: Chinese hamster ovary cells  
Result: negative  
  
Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration  
Species: Rat  
Result: negative

#### **propane-1,2-diol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative  
  
Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### Components:

#### **bifenthrin (ISO):**

Species : Rat  
Application Route : Oral  
Exposure time : 2 Years  
NOAEL : 3 mg/kg bw/day  
Result : negative  
  
Species : Mouse  
Application Route : Oral  
Exposure time : 18 month(s)  
NOAEL : 7.6 mg/kg bw/day  
Result : positive

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-



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### STOT - repeated exposure

May cause damage to organs (Nervous system) through prolonged or repeated exposure.

#### Components:

##### **bifenthrin (ISO):**

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

### Repeated dose toxicity

#### Components:

##### **bifenthrin (ISO):**

Species : Rat  
LOAEL : 7 - 9 mg/kg  
Application Route : Oral  
Exposure time : 90 d

##### **propane-1,2-diol:**

Species : Rat, male and female  
NOAEL : 1,700 mg/kg  
Application Route : Oral  
Exposure time : 2 Years

Species : Rat, male and female  
NOAEL : 1,000 mg/kg  
LOAEL : 160 mg/kg  
Application Route : Inhalation  
Exposure time : 90 Days

### Aspiration toxicity

Not classified based on available information.

#### Components:

##### **bifenthrin (ISO):**

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

### Further information

#### Product:

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **bifenthrin (ISO):**

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- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.15  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.11  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (algae): 0.822 mg/l  
Exposure time: 72 h
- M-Factor (Acute aquatic toxicity) : 10,000
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.12  
Exposure time: 21 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Crustaceans): 0.0013  
Exposure time: 21 d
- M-Factor (Chronic aquatic toxicity) : 100,000
- Toxicity to soil dwelling organisms : (Eisenia fetida (earthworms)): > 18.9 mg/kg  
Exposure time: 14 d
- Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 1,800 mg/kg

LD50 (Apis mellifera (bees)): 0.015 µg/Bee  
Remarks: Contact

LD50 (Apis mellifera (bees)): 0.1 µg/Bee  
Remarks: Oral

### **propane-1,2-diol:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : (Mysidopsis bahia (opossum shrimp)): 18,800 mg/l  
Exposure time: 96 h
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 34,100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l  
Exposure time: 7 d
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 20,000 mg/l  
Exposure time: 18 h

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### Persistence and degradability

#### Components:

##### **bifenthrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

##### **propane-1,2-diol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 23.6 %  
Exposure time: 64 d  
Method: OECD Test Guideline 306

### Bioaccumulative potential

#### Components:

##### **bifenthrin (ISO):**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 1,414  
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.  
See section 9 for octanol-water partition coefficient.

##### **propane-1,2-diol:**

Partition coefficient: n-octanol/water : log Pow: -1.07

### Mobility in soil

#### Components:

##### **bifenthrin (ISO):**

Distribution among environmental compartments : Remarks: immobile

Stability in soil : Dissipation time: 86 d

### 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 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 chemi-

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cal or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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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.  
(Bifenthrin)  
Class : 9  
Packing group : III  
Labels : 9

##### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Bifenthrin)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo : 964  
aircraft)  
Packing instruction (passen- : 964  
ger aircraft)  
Environmentally hazardous : yes

##### IMDG-Code

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

##### ADG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Bifenthrin)  
Class : 9  
Packing group : III

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Labels : 9  
Hazchem Code : •3Z  
Remarks : Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg(L) or less

### 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.

## SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 6

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

TCSI : On the inventory, or 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 the following components that are not on the Canadian DSL nor NDSL.  
  
2-METHYLBIPHENYL-3-YLMETHYL (Z)-(1RS,3RS)-3-(2-CHLORO-3,3,3-TRIFLUOROPROP-1-ENYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE  
Smectite-group minerals

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

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

PICCS : Not in compliance with the inventory

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

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NZIoC : Not in compliance with the inventory

### SECTION 16. OTHER INFORMATION

Revision Date : 31.07.2021

Date format : dd.mm.yyyy

#### Full text of other abbreviations

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

AU OEL / TWA : Exposure standard - time weighted average

AIC - 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; 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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lates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

AU / 6N