

**PIRIMOR**

Version	Revision Date:	SDS Number:	Date of last issue: -
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**Section 1: Identification**

Product name : PIRIMOR

Design code : A10788A

**Manufacturer or supplier's details**

Company : Syngenta Crop Protection Limited

Address : Level 4, 60 Parnell Road, Parnell  
Auckland  
New Zealand

Telephone : 09 306 1500 (weekdays)

Emergency telephone number : 0800 POISON (0800 764766) (National Poisons & Hazchem  
Information Centre)  
0800 734 607(Syngenta - 24 hours)

Telefax : None

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

Recommended use : Insecticide

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**Section 2: Hazard identification****GHS Classification**

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 4

Serious eye damage/eye  
irritation : Category 2Specific target organ toxicity -  
repeated exposure : Category 2Hazardous to the aquatic  
environment - acute hazard : Category 1Hazardous to the aquatic  
environment - chronic hazard : Category 1Hazardous to the environment : Hazardous to terrestrial vertebrates, Hazardous to terrestrial  
invertebrates**GHS label elements**

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- Hazard pictograms : 
- Signal word : Danger
- Hazard statements : H301 Toxic if swallowed.  
H332 Harmful if inhaled.  
H319 Causes serious eye irritation.  
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H431 Very toxic to terrestrial vertebrates.  
H442 Toxic to terrestrial invertebrates.
- Precautionary statements : **Prevention:**  
P260 Do not breathe dust or 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.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
- Response:**  
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P314 Get medical advice/ attention if you feel unwell.  
P391 Collect spillage.
- Storage:**  
P405 Store locked up.
- Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

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

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.  
May form combustible dust concentrations in air.

**Section 3: Composition/information on ingredients**

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Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
pirimicarb (ISO)	23103-98-2	>= 50 -< 70
talc	14807-96-6	>= 10 -< 20
magnesium carbonate	546-93-0	>= 10 -< 20
lignosulfonic acid, sodium salt	8061-51-6	>= 1 -< 10
sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate	577-11-7	>= 1 -< 3
dioxosilane	14808-60-7	>= 0.1 -< 1

### Section 4: First-aid measures

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : Poisoning produces effects associated with anticholinesterase activity which may include:  
Nausea  
Diarrhoea  
Vomiting  
Toxic if swallowed.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause cancer.
- Notes to physician : Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube).  
Administer atropine sulphate as antidote.  
Since there is no therapeutic effect, the use of oxime preparations (or other cholinesterase reactivators) is contraindicated.

### Section 5: Fire-fighting measures

- Suitable extinguishing media : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or car-

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- bon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam  
or  
Water spray
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire-fighting : Fire will spread by burning with a visible flame.  
As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides
- Specific extinguishing methods : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
- Hazchem Code : 2X

### Section 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.  
Avoid dust formation.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).  
Do not create a powder cloud by using a brush or compressed air.  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

### Section 7: Handling and storage

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Advice on safe handling : This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

This material can become readily charged in most operations.

Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from food, drink and animal feedingstuffs.

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
pirimicarb (ISO)	23103-98-2	TWA	0.8 mg/m <sup>3</sup>	Syngenta
talc	14807-96-6	WES-TWA (Respirable dust)	2 mg/m <sup>3</sup>	NZ OEL
		WES-TWA	0.1 fibres per millilitre (asbestos)	NZ OEL
Further information: Confirmed carcinogen				
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
		TWA	0.1 fibres per cubic centimeter	ACGIH
magnesium carbonate	546-93-0	WES-TWA	10 mg/m <sup>3</sup>	NZ OEL
dioxosilane	14808-60-7	WES-TWA (Respirable dust)	0.025 mg/m <sup>3</sup>	NZ OEL
Further information: Confirmed carcinogen				
		TWA (Respirable particulate matter)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH

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### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
pirimicarb (ISO)	23103-98-2	Acetylcho-linesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcho-linesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI

**Engineering measures** : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.  
Where necessary, seek additional occupational hygiene advice.

### Personal protective equipment

**Respiratory protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Suitable respiratory equipment:  
Respirator with a half face mask  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

#### Hand protection

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0.5 mm

**Remarks** : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi-

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- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection : Tightly fitting safety goggles  
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Remove and wash contaminated clothing before re-use.  
Wear as appropriate:  
Dust impervious protective suit
- Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.
- Personal protective equipment should comply with relevant national standards

### Section 9: Physical and chemical properties

- Appearance : granules
- Colour : blue green to green
- Odour : weak
- Odour Threshold : No data available
- pH : 7 - 11  
Concentration: 1 %w/v
- Melting point/freezing point : 89 °C
- Initial boiling point and boiling range : No data available
- Flash point : No data available
- Evaporation rate : No data available
- Flammability (solid, gas) : May form combustible dust concentrations in air.
- Burning number : 5 (20 °C)  
5 (100 °C)
- Upper explosion limit / Upper flammability limit : No data available

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Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Bulk density : 0.4 - 0.6 g/cm<sup>3</sup>

Solubility(ies)

    Water solubility : soluble

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : 245 °C

Decomposition temperature : No data available

Minimum ignition temperature : 500 °C

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Minimum ignition energy : > 1,000 mJ

Particle characteristics

Particle size : No data available

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**Section 10: Stability and reactivity**

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : No decomposition if used as directed.

Incompatible materials : None known.

Hazardous decomposition products : No hazardous decomposition products are known.

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**Section 11: Toxicological information**

Exposure routes : Ingestion

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Inhalation  
Skin contact  
Eye contact

**Acute toxicity**

Toxic if swallowed.  
Harmful if inhaled.

**Product:**

Acute oral toxicity : LD50 (Rat, male and female): 87 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 1.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**Components:****pirimicarb (ISO):**

Acute oral toxicity : LD50 (Rat, female): 142 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 0.858 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

Acute oral toxicity : LD50 (Rat, male and female): 3,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male): > 10,000 mg/kg

**Skin corrosion/irritation**

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

**Product:**

Species : Rabbit  
Result : No skin irritation

**Components:****pirimicarb (ISO):**

Species : Rabbit  
Result : No skin irritation

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**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

Result : Irritating to skin.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

**Components:****pirimicarb (ISO):**

Species	:	Rabbit
Result	:	No eye irritation

**lignosulfonic acid, sodium salt:**

Result : Eye irritation

**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

Result : Irreversible effects on the eye

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

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

**Respiratory sensitisation**

Not classified due to lack of data.

**Product:**

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

**Components:****pirimicarb (ISO):**

Species	:	Guinea pig
Result	:	May cause sensitisation by skin contact.

**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

Test Type	:	Draize Test
Species	:	Humans
Result	:	Not a skin sensitizer.

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

Not classified due to lack of data.

**Components:****pirimicarb (ISO):**

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

**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

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

**Carcinogenicity**

May cause cancer.

**Components:****pirimicarb (ISO):**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**Reproductive toxicity**

Not classified due to lack of data.

**Components:****pirimicarb (ISO):**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.  
Animal testing did not show any effects on foetal development.

**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation

**STOT - single exposure**

Not classified due to lack of data.

**Components:****pirimicarb (ISO):**

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

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**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

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

**STOT - repeated exposure**

Not classified due to lack of data.

**Components:****pirimicarb (ISO):**

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

**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

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

**dioxosilane:**

Exposure routes : Inhalation  
Target Organs : Lungs  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

**Aspiration toxicity**

Not classified due to lack of data.

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

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 78 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.046 mg/l  
Exposure time: 48 h

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): 14.5 µg/bee  
Exposure time: 24 h  
End point: Acute oral toxicity

**Components:****pirimicarb (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 79 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.017 mg/l

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aquatic invertebrates	Exposure time: 48 h
Toxicity to algae/aquatic plants	: ErC50 (Raphidocelis subcapitata (freshwater green alga)): 180 mg/l Exposure time: 96 h  NOEC (Raphidocelis subcapitata (freshwater green alga)): 50 mg/l End point: Growth rate Exposure time: 96 h
M-Factor (Acute aquatic toxicity)	: 10
Toxicity to fish (Chronic toxicity)	: NOEC (Oncorhynchus mykiss (rainbow trout)): 18 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0.0009 mg/l Exposure time: 21 d
M-Factor (Chronic aquatic toxicity)	: 100
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): 653 mg/kg Exposure time: 14 d  EC50 (Eisenia fetida (earthworms)): Calculated value 65.3 mg/kg Exposure time: 14 d
Toxicity to terrestrial organisms	: LD50 (Colinus virginianus (Bobwhite quail)): 20.9 mg/kg End point: Acute oral toxicity  LD50 (Apis mellifera (bees)): 2.5 µg/bee Exposure time: 48 h End point: Acute oral toxicity  LD50 (Apis mellifera (bees)): 39.9 µg/bee Exposure time: 48 h End point: Acute contact toxicity

### **sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h
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### **Persistence and degradability**

#### **Components:**

#### **pirimicarb (ISO):**

Stability in water	: Degradation half life: 36 - 55 d Remarks: Product is not persistent.
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**sodium; 1,2-bis-(2-ethyl-hexyloxycarbonyl)-ethanesulfonate:**

Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential****Components:****pirimicarb (ISO):**

Bioaccumulation : Remarks: Does not bioaccumulate.

**Mobility in soil****Components:****pirimicarb (ISO):**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 29 - 365 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.**Other adverse effects****Components:****pirimicarb (ISO):**Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).**Section 13: Disposal considerations****Disposal methods**Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Refer to the product label for specific disposal/recycling information  
Otherwise, dispose of waste at an approved landfill or other approved facility that will ensure the substance does not exceed the tolerable exposure limit (TEL) or environmental exposure limit (EEL), where relevant, or will treat the substance so that it is rendered no longer hazardous.Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Add rinsings to spray tank  
Recycle empty container through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)).  
Empty containers can be landfilled, when in accordance with the local regulations.

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Do not re-use empty containers.

**Section 14: Transport information****International Regulations****UNRTDG**

UN number : UN 2757  
Proper shipping name : CARBAMATE PESTICIDE, SOLID, TOXIC (PIRIMICARB)  
Class : 6.1  
Packing group : III  
Labels : 6.1  
Environmentally hazardous : no

**IATA-DGR**

UN/ID No. : UN 2757  
Proper shipping name : Carbamate pesticide, solid, toxic (PIRIMICARB)  
Class : 6.1  
Packing group : III  
Labels : Toxic  
Packing instruction (cargo aircraft) : 677  
Packing instruction (passenger aircraft) : 670

**IMDG-Code**

UN number : UN 2757  
Proper shipping name : CARBAMATE PESTICIDE, SOLID, TOXIC (PIRIMICARB)  
Class : 6.1  
Packing group : III  
Labels : 6.1  
EmS Code : F-A, S-A  
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 2757  
Proper shipping name : CARBAMATE PESTICIDE, SOLID, TOXIC (PIRIMICARB)  
Class : 6.1  
Packing group : III  
Labels : 6.1  
Hazchem Code : 2X  
Marine pollutant : no

**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

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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

##### HSNO Approval Number

HSR000704

ACVM Registration No. P1904

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

##### HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Record keeping is required

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

### Section 16: Other information

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

Syngenta : Syngenta Occupational Exposure Limit

ACGIH / TWA : 8-hour, time-weighted average

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

Syngenta / TWA : Time weighted average

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

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- 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

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.

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