

ACELEPRYN TURF INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: -
6.0	15.04.2025	S00082685942	Date of first issue: 15.04.2025

Section 1: Identification

Product name : ACELEPRYN TURF INSECTICIDE

Design code : A16130J

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

Section 2: Hazard identification**GHS Classification**Hazardous to the aquatic
environment - acute hazard : Category 1Hazardous to the aquatic
environment - chronic hazard : Category 1**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.Precautionary statements : **Response:**
P391 Collect spillage.

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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)
chlorantraniliprole	500008-45-7	≥ 10 -< 20
propane-1,2-diol	57-55-6	≥ 1 -< 10
dioxosilane	14808-60-7	≥ 0.1 -< 1
bronopol (INN)	52-51-7	≥ 0.025 -< 0.1

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	: Nonspecific No symptoms known or expected. May cause cancer.
Notes to physician	: There is no specific antidote available. Treat symptomatically.

Section 5: Fire-fighting measures

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

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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 : 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_x)
Bromine compounds
Chlorine compounds
- 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 : 3Z

Section 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
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, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Clean contaminated surface thoroughly.
Clean with detergents. Avoid solvents.
Retain and dispose of contaminated wash water.

Section 7: Handling and storage

- Advice on safe handling : No special protective measures against fire required.

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Conditions for safe storage : Avoid contact with skin and eyes.
 When using do not eat, drink or smoke.
 For personal protection see section 8.
 No special storage conditions required.
 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
chlorantraniliprole	500008-45-7	TWA	5 mg/m ³	Syngenta
		TWA	10 mg/m ³ (Total dust)	Supplier
		TWA	5 mg/m ³ (Respirable dust)	Supplier
propane-1,2-diol	57-55-6	WES-TWA (particulate)	10 mg/m ³	NZ OEL
		WES-TWA (Vapour and particulates)	150 ppm 474 mg/m ³	NZ OEL
dioxosilane	14808-60-7	WES-TWA (Respirable dust)	0.025 mg/m ³	NZ OEL
Further information: Confirmed carcinogen				
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH

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.

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Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand protection
- Remarks : No special protective equipment required.
- Eye protection : No special protective equipment required.
- Skin and body protection : No special protective equipment required.
Select skin and body protection based on the physical job requirements.
- 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 : liquid
- Colour : grey
- Odour : like alcohol, weak
- Odour Threshold : No data available
- pH : 5 - 9
Concentration: 1 %w/v
6.6
Concentration: 100 %w/v
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : No data available
- Flash point : Method: Pensky-Martens closed cup
does not flash
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- 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
Density	:	1.09 g/cm ³
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	535 °C
Decomposition temperature	:	No data available
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.
Particle characteristics		
Particle size	:	No data available

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.

Section 11: Toxicological information

Exposure routes	:	Ingestion Inhalation Skin contact Eye contact
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Acute toxicity

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

Product:

Acute oral toxicity	: LD50 (Rat, female): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): > 4.75 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg

Components:**chlorantraniliprole:**

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg

propane-1,2-diol:

Acute oral toxicity	: LD50 (Rat): > 20,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: LC50 (Rabbit): 317,042 mg/l Exposure time: 2 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

bronopol (INN):

Acute oral toxicity	: Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	: LC50 (Rat): > 5 mg/l Exposure time: 6 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity

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

Skin corrosion/irritation

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

Product:

Species : Rabbit
Result : No skin irritation

Components:**chlorantraniliprole:**

Species : Rabbit
Result : No skin irritation

propane-1,2-diol:

Result : No skin irritation

bronopol (INN):

Species : Rabbit
Result : Irritating to skin.

Serious eye damage/eye irritation

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

Product:

Species : Rabbit
Result : No eye irritation

Components:**chlorantraniliprole:**

Species : Rabbit
Result : No eye irritation

propane-1,2-diol:

Result : No eye irritation

bronopol (INN):

Species : Rabbit
Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation**Skin sensitisation**

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

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Respiratory sensitisation

Not classified due to lack of data.

Product:

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Result	:	Does not cause skin sensitisation.

Components:**chlorantraniliprole:**

Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.

propane-1,2-diol:

Result	:	Does not cause skin sensitisation.
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bronopol (INN):

Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.

Chronic toxicity**Germ cell mutagenicity**

Not classified due to lack of data.

Components:**chlorantraniliprole:**

Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
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propane-1,2-diol:

Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
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bronopol (INN):

Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
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Carcinogenicity

May cause cancer.

Components:**chlorantraniliprole:**

Carcinogenicity - Assessment	:	No evidence of carcinogenicity in animal studies.
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propane-1,2-diol:

Carcinogenicity - Assessment	:	No evidence of carcinogenicity in animal studies.
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bronopol (INN):

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

Reproductive toxicity

Not classified due to lack of data.

Components:**chlorantraniliprole:**

Reproductive toxicity - Assessment : No toxicity to reproduction

propane-1,2-diol:

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation
Animal testing did not show any effects on foetal development.

bronopol (INN):

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

STOT - single exposure

Not classified due to lack of data.

Components:**chlorantraniliprole:**

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

propane-1,2-diol:

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

bronopol (INN):

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure

Not classified due to lack of data.

Components:**chlorantraniliprole:**

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

propane-1,2-diol:

Assessment : The substance or mixture is not classified as specific target

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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.

bronopol (INN):

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

Not classified due to lack of data.

Components:**chlorantraniliprole:**

No aspiration toxicity classification

propane-1,2-diol:

No aspiration toxicity classification

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

Toxicity to fish	: LC50 (Cyprinus carpio (Carp)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.052 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 96 h NOEC (Raphidocelis subcapitata (freshwater green alga)): 31.3 mg/l Exposure time: 96 h
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): > 5,000 mg/kg Exposure time: 14 d EC50 (Eisenia fetida (earthworms)): Calculated value > 500 mg/kg Exposure time: 14 d

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Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): > 1138 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity

LD50 (*Apis mellifera* (bees)): > 1000 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity

LD50 (*Colinus virginianus* (Bobwhite quail)): > 2,000 mg/kg
End point: Acute oral toxicity

Components:

chlorantraniliprole:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 13.8 mg/l
Exposure time: 96 h

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 15.1 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.0116 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (*Raphidocelis subcapitata* (freshwater green alga)): > 2 mg/l
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (*Oncorhynchus mykiss* (rainbow trout)): 0.11 mg/l
Exposure time: 90 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.00447 mg/l
Exposure time: 21 d

NOEC (*Chironomus riparius* (harlequin fly)): 0.0025 mg/l
Exposure time: 28 d

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): > 1,000 mg/kg
Exposure time: 14 d

EC50 (*Eisenia fetida* (earthworms)): Calculated value > 100 mg/kg
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50 (*Colinus virginianus* (Bobwhite quail)): > 2,250 mg/kg
End point: Acute oral toxicity

LD50 (*Apis mellifera* (bees)): > 0.005 µg/bee
Exposure time: 48 h

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End point: Acute oral toxicity

LD50 (*Apis mellifera* (bees)): > 0.0274 µg/bee

Exposure time: 48 h

End point: Acute contact toxicity

propane-1,2-diol:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 40,613 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other : (Ceriodaphnia dubia (water flea)): 18,340 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic : ErC50 (*Raphidocelis subcapitata* (freshwater green alga)): 19,000 mg/l
plants Exposure time: 96 h

Toxicity to daphnia and other : NOEC (*Ceriodaphnia dubia* (Water flea)): 13,020 mg/l
aquatic invertebrates (Chronic toxicity) Exposure time: 7 d
Test Type: semi-static test

bronopol (INN):

Toxicity to algae/aquatic : NOEC (algae): 0.0025 mg/l
plants Exposure time: 72 h

EC50 (algae): 0.068 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Persistence and degradability**Components:****chlorantraniliprole:**

Biodegradability : Result: Not readily biodegradable.

propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.

bronopol (INN):

Biodegradability : Result: Readily biodegradable.

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Bioaccumulative potential**Components:****chlorantraniliprole:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 2.76 (20 °C)

Mobility in soil**Components:****chlorantraniliprole:**

Distribution among environmental compartments : Remarks: Low mobility in soil.

Stability in soil : Dissipation time: 530 d
Percentage dissipation: 50 % (DT50)
Remarks: Persistent in soil.

Other adverse effects**Components:****chlorantraniliprole:**

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).
Empty containers can be landfilled, when in accordance with the local regulations.
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. (CHLORANTRANILIPROLE)
Class	: 9
Packing group	: III
Labels	: 9
Environmentally hazardous	: yes
Remarks	: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IATA-DGR

UN/ID No.	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (CHLORANTRANILIPROLE)
Class	: 9
Packing group	: III
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 964
Packing instruction (passenger aircraft)	: 964
Environmentally hazardous	: yes
Remarks	: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IMDG-Code

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORANTRANILIPROLE)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes
Remarks	: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

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

Not applicable for product as supplied.

National Regulations

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NZS 5433

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORANTRANILIPROLE)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	3Z
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 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**

HSR007969

ACVM Reg. not required

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)

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

Syngenta : Syngenta Occupational Exposure Limit

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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 - 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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