

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: ACELEPRYN® Turf Insecticide
Design Code: A16130J
Recommended Use: Insecticide
Company Details: Syngenta Crop Protection Limited
Address: Level 4,
60 Parnell Road,
Parnell
AUCKLAND 1052
NEW ZEALAND

Telephone number: (weekdays) 09 306 1500
Emergency Telephone number: (24 Hours) 0800 734 607
National Poisons & Hazchem Information Centre : 0800 POISON (0800 764 766)

Section 2: HAZARDS IDENTIFICATION

Hazard classification: 9.1A
Priority Identifier: WARNING - ECOTOXIC
Secondary Identifiers: 9.1A = Very toxic to aquatic organisms

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:

Chemical Identity of ingredients:

Ingredient	CAS no.	Content (% w/w)
Chlorantraniliprole	500008-45-7	20
1,2-benzisothiazol-3(2H)-one	2634-33-5	<0.05
bronopol (INN)	52-51-7	<0.1
Other ingredients determined not to be hazardous	-	to 100%

Section 4: FIRST AID MEASURES

Description of First Aid measures:

General Advice: For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

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 Doctor or the National Poisons 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 doctor.
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 (if present).
Immediate medical attention is required.

If swallowed: If swallowed seek medical advice immediately and show the container or label.
DO NOT induce vomiting.

Important symptoms and effects, both acute and delayed:
Symptoms: No symptoms known or expected.

Indication of any immediate medical attention and special treatment needed:
There is no specific antidote available.
Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media:

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

Special hazards arising from the substance or mixture:

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.

Advice for firefighters:

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.

Hazchem Code: 3Z

Further information: Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in Sections 7 and 8.

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 material 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).

Reference to other sections:

Refer to disposal considerations listed in Section 13.
Refer to protective measures listed in sections 7 and 8.

Section 7: HANDLING AND STORAGE

Precautions for Safe handling:	
Advice on safe handling:	No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
Conditions for safe storage, including any incompatibilities:	
Requirements for storage area and containers:	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.
Specific end use(s)	
Specific use(s)	For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Control Parameters				
Occupational Exposure Limits:				
Components	CAS No	Value type (form of exposure)	Control parameters	Basis
chlorantraniliprole	500008-45-7	TWA	10 mg/m ³ (total dust)	Supplier
			5 mg/m ³ (respirable dust)	Supplier
			5 mg/m ³	Syngenta

Exposure controls	
Engineering measures:	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. If airborne mists or vapors are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.
Personal Protective Protection:	
Eye protection:	No special protective equipment required.
Hand protection:	
Material:	Chemical resistant, such as 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 conditions 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.

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: Overalls and footwear
Respiratory protection:	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory equipment: Respirator with a particle filter 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.
Filter type:	Particulates type (P)
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 be certified to appropriate standards.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:	
Appearance:	Liquid
Colour:	Grey to White
Odour:	Like alcohol, weak
Odour threshold:	No data
pH value	7.8 at 10 g/L
Melting point / freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	> 101 °C, Method: closed cup
Flammability (solid, gas):	No data
Upper flammability / explosive limits:	No data
Lower flammability / explosive limits	No data
Vapour pressure:	No data
Vapour Density:	No data
Density:	1.09 g/cm ³ (25°C)
Solubility in other solvents:	Dispersible in water
Partition co-efficient: n-octanol / water:	No data
Autoignition temperature	535°C
Decomposition temperature:	No data
Dynamic viscosity:	583 mPa.s
Explosive properties:	Not explosive
Oxidising properties:	Not classified as oxidizing
Surface tension:	Solid – not relevant
Minimum ignition energy:	No data

Section 10: STABILITY AND REACTIVITY

Reactivity: See Section: "Possibility of Hazardous Reactions".
Chemical Stability: The product is stable when used in normal conditions.
Possibility of Hazardous Reactions: No hazardous reactions by normal handling and storage according to provisions.
Conditions to Avoid No decomposition if used as directed.
Incompatible Materials: No substances are known which lead to the formation of hazardous substances or thermal reactions.
Hazardous Decomposition Products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11: TOXICOLOGICAL INFORMATION

HSNO Classifications:

No relevant HSNO classification.

Acute toxicity (product)	
Swallowed:	LD ₅₀ >5000 mg/kg (rat, female)
Dermal absorption:	LD ₅₀ >5000 mg/kg (rat, male and female)
Inhaled:	LC ₅₀ (4 h) >4.75 mg/L (rat)
Aspiration hazard:	Not classified
Respiratory irritation:	Not classified
Skin corrosion / irritation:	NON-IRRITANT (rabbit)
Eye damage / irritation:	NON-IRRITANT (rabbit)
Respiratory or Skin Sensitisation:	NOT A SKIN SENSITISER (Guinea pigs)
Chronic / Long Term Effects (active ingredient)	
Germ cell mutagenicity:	In vitro tests did not show any mutagenic effects.
Carcinogenicity:	No evidence of carcinogenicity in animal studies.
Reproductive toxicity:	No toxicity to reproduction.
Specific Organ toxicity:	<i>Single exposure:</i> The substance or mixture is not classified as specific target organ toxicant single exposure. <i>Repeated exposure:</i> The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Narcotic Effects:	Not classified.

Section 12: ECOLOGICAL INFORMATION

HSNO Classifications:	
9.1A = Very toxic to aquatic organisms	
Ecotoxicity Effects – Aquatic (product)	
Acute toxicity to fish:	LC ₅₀ (96 h) = >100 mg/L (<i>Cyprinus carpio</i> (Carp))
Toxicity to daphnia and other aquatic invertebrates:	EC ₅₀ (48h) = 35 µg/L (<i>Daphnia magna</i> (water flea))
Toxicity to algae:	E _r C ₅₀ (72 h and 96h) = >100 mg/L (<i>Pseudokirchneriella subcapitata</i> (Freshwater green algae)) NOEC (72 h and 96h) = 31.3 mg/L (<i>Pseudokirchneriella subcapitata</i> (Freshwater green algae))
Ecotoxicity Effects – Terrestrial (product)	
Toxicity to Birds:	LD ₅₀ = >2,000 mg/kg mg/kg (bobwhite quail)
Toxicity to soil dwelling organisms:	LC ₅₀ (14 days) = > 1,000 mg/kg (earthworms (<i>Eisenia foetida</i>))
Toxicity to Bees:	LD ₅₀ (oral, 48h) = >1138 µg prod./bee LD ₅₀ (contact, 48h) = >1000 µg prod./bee

Persistence and degradability:	
Biodegradability:	Not readily biodegradable
Stability in water:	Not persistent in water.
Bioaccumulative potential:	
Bioaccumulation:	Does not bioaccumulate.
Mobility in soil:	
Distribution among environmental compartments:	The product is not expected to be mobile in soil.
Stability in soil:	Persistent in soil.
Other adverse effects:	
Results of PBT and vPvB assessment (product):	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Section 13: DISPOSAL CONSIDERATIONS

Product Disposal:	DO NOT contaminate ponds, waterways or ditches with chemical or used containers. DO NOT dispose of waste into sewer. Dispose of this product only by using according to the label. 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.
Container Disposal:	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Section 14: TRANSPORT INFORMATION

Rail / Road (NZS 5433)	UN-No:	3082
	Class:	9
	Packaging Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Chlorantraniliprole)
Sea (IMDG-Code)	UN-No:	3082
	Class:	9
	Packaging Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Chlorantraniliprole)
	EmS Code:	F-A, S-F
	MARINE POLLUTANT:	Yes
Air (IATA)	UN-No:	3082
	Class:	9
	Packaging Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Chlorantraniliprole)
	Packing instruction:	964 (cargo and passenger aircraft)
	Packing instruction (LQ):	Y964 (cargo and passenger aircraft)

Section 15: REGULATORY INFORMATION

HSNO Approval Number:	HSR007969
Tolerable Exposure Limit or Environmental Exposure Limit:	The following ADEs and PDEs are set for chlorantraniliprole: ADE = 1.58 mg/kg bw/day PDE _{FOOD} = 1.58 mg/kg bw/day No EEL values are set for this substance at this time.
Required Regulatory Controls:	
Certified handler:	Yes
Tracking:	No
Record Keeping:	Yes
ACVM Registration:	Not applicable
ACVM Controls:	Not applicable
International Agreements related to the substance (eg, Montreal Protocol, Stockholm Convention or Rotterdam Convention):	Not applicable

Section 16: OTHER INFORMATION

Date of SDS Preparation / Review:	24 February 2023
Version number of SDS:	5.0
Key / Legend to abbreviations and acronyms used:	
AICS - Australian Inventory of Chemical Substances;	MARPOL - International Convention for the Prevention of Pollution from Ships;
ANTT - National Agency for Transport by Land of Brazil;	N.O.S. - Not Otherwise Specified;
ASTM - American Society for the Testing of Materials;	Nch - Chilean Norm;
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);

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 ActivityRelationship;
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;
WES - Workplace Exposure Standard (Worksafe NZ);
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 test.

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