




Country: RSA, NAM, BOT, ZAM, MOZ
 Language: English
 Version: 1

SDS Number: 000004
 Issue Date: 2021-05-01
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier				
Product form	Mixtures			
Trade name	Plant Protector			
Product code	200ml 33325 (6001379100517)			
Registration Number	L8781 / N-AR1163 / DSV - 2186			
SDS Number	000004			
1.1. Relevant identified uses of the substance or mixture and uses advised against				
1.1.1. Relevant identified uses				
Main use category	Insecticide – Plant Protection Product.			
Industrial/Professional use spec	Home and Garden.			
Use of the substance/mixture	Insecticide.			
1.1.2. Uses advised against				
	See product label for restrictions.			
1.3. Details of the supplier of the safety data sheet				
	Agro-Serve (Pty) Ltd trading as Efekto 15 Diesel Road, Isando, 1600, South Africa P.O. Box 652147, Benmore, 2010, South Africa			
Telephone	+27 11 (011) 287 5700			
Email	info@efekto.co.za			
Website	www.efekto.co.za			
1.4. Emergency telephone number				
Country	Organisation/Company	Address	Emergency number	Comment
South Africa	Griffon Poisons Centre		082 446 8946	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture				
Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures				
	Acute toxicity: Category 4: H302 Harmful if swallowed.			
	Serious eye damage/eye irritation: Category 2A: H319			
	Specific target organ toxicity - single exposure: Category 3: H335 May cause respiratory irritation.			
	STOT: Category 2: H373 May cause damage to organs through prolonged or repeated exposure if swallowed.			
	Acute aquatic toxicity: Category 1: H400 Very toxic to aquatic life.			
	Chronic aquatic toxicity: Category 1: H410 Very toxic to aquatic life with long lasting effects.			
2.2. Label elements				
Labelling according to Regulation (EC) No. 1272/2008 [CLP]				
				
Hazard pictograms:	GHS07	GHS08	GHS09	
Hazardous components which must be listed on the label:	• Imidacloprid			
CLP Signal word:	Warning			
Hazard statements:	H302 - Harmful if swallowed.			
	H319 - Causes serious eye irritation.			
	H361 - Suspected of damaging fertility or the unborn child.			
	H373 - Causes damage to organs through prolonged or repeated exposure.			
	H400 Very toxic to aquatic life.			
	H410 Very toxic to aquatic life with long lasting effects.			
Precautionary statements:	P102 Keep out of reach of children.			
	P103 Read label before use			
	P202 - Do not handle until all safety precautions have been read and understood.			
	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.			
	P270 - Do not eat, drink or smoke when using this product.			
	P273 - Avoid release into the environment.			
	P280 - Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.			

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	P281 - Use personal protective equipment as required.
Response Precautionary Statements:	P301+P312 - IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
	P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337/313 - If eye irritation persists: Get medical advice.
	P314 - Get medical advice/attention if you feel unwell.
	P330 - Rinse mouth.
	P391 - Collect spillage.
	P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
2.3. Other hazards	
	Harmful to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1. Substances					
	Suspension Concentrate (SC)				
	Biocidal product				
3.2. Mixtures					
	Chemical Name	CAS-No.	EC – Number	Conc. % by weight	Classification
	Imidacloprid N-{1-[(6-Chloro-3-pyridyl)methyl]-4,5-dihydroimidazol-2-yl}nitramide	67485-29-4	614-073-7	2.0 %	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
	Glycerol 1, 2, 3- Trihydroxypropane or 1, 2, 3- Propanetriol.	56-81-5	200-289-5	1.5 %	Not classified
	Other ingredients (non-hazardous) to 100%			Balance	
Further information					
	Imidacloprid	138261-41-3	M-Factor: 10 (acute), 10 (chronic)		
For the full text of the Hazard statements mentioned in this Section, see Section 16.					

SECTION 4: First aid measures

4.1. Description of first aid measures	
General Advice	When possible, have the product container or label with you when calling a poison control centre or doctor or going for treatment.
First-aid measures after inhalation	Move the victim to fresh air and keep at rest. Call a physician or poison control centre immediately.
First-aid measures after skin contact	Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.
First-aid measures after eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.
First-aid measures after ingestion	Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.
4.2. Most important symptoms and effects, both acute and delayed	
	If large amounts are ingested, the following symptoms may occur: Dizziness, Abdominal pain, Nausea Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s).
4.3. Indication of any immediate medical attention and special treatment needed	
	Treat symptomatically. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

SECTION 5: Firefighting measures

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5.1. Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet.
5.2. Special hazards arising from the substance or mixture	
	Carbon monoxide, hydrogen fluoride, carbon dioxide, nitrogen oxides The substances/groups of substances mentioned can be released in case of fire.
5.3. Advice for firefighters	
	Special protective equipment for fire-fighters In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
5.3. Further information	
	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses.


SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Emergency procedures	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
	Do not allow to enter soil, waterways or wastewater canal.
6.3. Methods and material for containment and cleaning up	
For containment	Collect spillage.
Methods for cleaning up	For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Avoid raising dust. Collect waste in suitable containers, which can be labelled and sealed. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.
Other information	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
Hygiene measures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Store in original container. Keep away from direct sunlight. Protect from freezing.
Storage temperature	>0°C <40°C
7.3. Specific end use(s)	
	Refer to the label and/or leaflet.

SECTION 8: Exposure controls/personal protection				
Control parameters				
Components	CAS-No.	Exposure limit(s)	Type of exposure limit	Source
Imidacloprid	138261-41-3	0.7 mg/m3	TWA	AU NOEL
Glycerine (Inhalable mist.)	56-81-5	10 mg/m3	TWA	AU NOEL
Diethylene glycol	111-46-6	101 mg/m3	TWA	EH40/2005
RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.				

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Appropriate engineering controls:	In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.
Hand protection:	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. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet. Material Nitrile rubber Rate of permeability > 480 min Glove thickness > 0.4 mm Protective index Class 6 Directive Protective gloves complying with EN 374.
Eye protection:	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
Skin and body protection:	Wear standard coveralls and Category 3 Type 4 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If there is a risk of significant exposure, consider a higher protective type suit.
Respiratory protection:	Wear a compressed air respirator (continuous flow) conforming to European Norm EN14594 or EN14593-1 or equivalent or a particle filter mask (protection factor 40) conforming to EN136P3 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
	
General protective measures:	The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.
Environmental exposure controls:	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	white to light beige
Odour	Characteristic
Odour threshold	Not determined due to potential health hazard by inhalation.
Melting point / Freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Not Flammable
Lower and upper explosion limit	Not explosive 92/69/EEC, A.14 / OECD 113
Flash point	No flash point - Determination conducted up to the boiling point.
Auto ignition temperature	No data available
Decomposition temperature	No decomposition if stored and handled as prescribed/indicated.
pH	7.0 - 8.5 at 100 % (23 °C)
Kinematic viscosity	400 - 800 mPa·s at 23 °C Velocity gradient 7.5 /s
Solubility	Immiscible
Partition coefficient octanol / water (log value)	Imidacloprid: log Pow: 0.57
Vapour pressure	Not determined
Density Solubility	Not applicable
Relative density	Approx. 577 - 673 kg/m ³
Particle characteristics	Not applicable
9.2. Other information	
	No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	
	Stable under normal conditions.
10.2. Chemical stability	
	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	

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	No hazardous reactions when stored and handled according to prescribed instructions.
10.4. Conditions to avoid	
	Extremes of temperature and direct sunlight.
10.5. Incompatible materials	
	Store only in the original container.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Formulated product	
LD50 oral rat	LD50 (rat) > 2,000 mg/kg
LD50 dermal rabbit	LD50 (rabbit) > 4,000 mg/kg
LC50 inhalation rat (mg/l)	LC50 (Rat) > 4.68 mg/l Determined in the form of dust (Actual)
Skin irritation	No skin irritation (Rabbit)
Eye irritation	No eye irritation (Rabbit)
Sensitisation	Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test
STOT-single exposure	Imidacloprid: Based on available data, the classification criteria are not met.
STOT-repeated exposure	Imidacloprid did not cause specific target organ toxicity in experimental animal studies.
Aspiration hazard	Imidacloprid: Based on available data, the classification criteria are not met.
Assessment mutagenicity	Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Assessment carcinogenicity	Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.
Assessment toxicity to reproduction	Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.
Assessment developmental toxicity	Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.
Further information	Misuse can be harmful to health.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general:	Very toxic to aquatic life with long lasting effects.
Formulated product	
LC50 fish 1	Rainbow trout (<i>Oncorhynchus mykiss</i>) > 535 mg/l; Exposure time: 96 h
LC50 fish 2	Golden orfe (<i>Leuciscus idus</i>) 237 mg/l; Exposure time: 96 h The value mentioned relates to the active ingredient imidacloprid.
EC50 Daphnia	Water flea (<i>Daphnia magna</i>) > 535 mg/l; Exposure time: 24 h
EC50 Midge	Non-biting midge (<i>Chironomus riparius</i>) 0.0552 mg/l; Exposure time: 24 h The value mentioned relates to the active ingredient imidacloprid.
ErC50 (algae) 1	Green algae (<i>Desmodesmus subspicatus</i>) > 1,000 mg/l; Exposure time: 72 h
ErC50 (algae) 2	Freshwater green alga (<i>Raphidocelis subcapitata</i>) > 100 mg/l; Exposure time: 72 h
Bees LD50 (oral)	0.037 µg /bee
Bees LC50 (contact)	0.081 µg /bee
Earthworm LC50 (14 days)	4,280 mg/kg soil
Birds Oral LD50	Japanese quail 31 mg/kg
Birds Oral LD50	Bobwhite quail 152 mg/kg
Birds LC50 (5-day diet)	Japanese quail 392 mg/kg diet
Birds LC50 (20 weeks diet)	Bobwhite quail 126 mg/kg diet
12.2. Persistence and degradability	
Imidacloprid	
Persistence and degradability	Not rapidly biodegradable.
Koc	Imidacloprid: Koc: 225
12.3. Bioaccumulative potential	
Imidacloprid	
Log Pow	Bioconcentration factor (BCF) 0.57 / log Pow: 0.57
Bioaccumulative potential	Does not bioaccumulate.
12.4. Mobility in soil	
Imidacloprid	

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Ecology - soil	Moderately mobile in soils
12.5. Results of PBT and vPvB assessment	
	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
12.6 Other adverse effects	
	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.











SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.
Contaminated packaging	Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / AND / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
				
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID MIXTURE), 9, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID MIXTURE), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID MIXTURE) 9, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

SECTION 15: Regulatory information

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

Registration No.	L8781 / N-AR1163 / DSV - 2186
Signal word:	Harmful!

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This chemical is a registered pesticide product and is subject to certain labelling requirements under law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label.	
Hazard statements:	Do not use on edible crops. May be harmful if swallowed, inhaled or absorbed through the skin. Toxic to fish, bees and wildlife. Keep out of reach of children, uninformed persons and animals. Store in a cool place away from food, feed and eating utensils.
WHO-classification:	II (Moderately hazardous)
Classification according to GHS:	Category 4.
IRAC Insecticide Group Code:	4A
15.2. Chemical safety assessment	
	Young people under the age of 18 are not allowed to work with the substance.

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
Full text of H- and EUH-statements:			
H302	Harmful if swallowed.		
H319	Causes serious eye irritation.		
H373	Causes damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Acute Tox.: Cat. 4	H302	On basis of test data	
Eye Dam./Irrit.: Cat. 2A	H319	Expert judgment	
STOT RE: Cat. 1	H373	Calculation method.	
Aquatic Acute 1	H400	On basis of test data.	
Aquatic Chronic 1	H410	Calculation method.	
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 2	Flammability - 1	Physical Hazard - 0	PPE -
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard			
Abbreviations and acronyms			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.		
ATE	Acute toxicity estimate.		
CAS-Nr.	CAS-Nr. Chemical Abstracts Service number.		
CEILING	Ceiling Limit Value.		
Conc.	Concentration.		
EC-No.	European community number.		
ECx	Effective concentration to x %.		
IATA	International Air Transport Association.		
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code).		
ICx	Inhibition concentration to x %.		
IMDG	International Maritime Dangerous Goods.		
LCx	Lethal concentration to x %.		
LDx	Lethal dose to x %.		
LOEC/LOEL	Lowest observed effect concentration/level.		
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships.		
N.O.S.	Not otherwise specified.		
NOEC/NOEL	No observed effect concentration/level.		
OECD	Organization for Economic Co-operation and Development.		
OES	Occupational Exposure Standard.		
PEAK	PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.		
SK-SEN	Skin sensitiser.		
SKIN_DES	SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.		

Safety Data Sheet

According to 1907/2006/EC; 453/2010/EU; 2015/830/EU (REACH)

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STEL	STEL: Exposure standard - short term exposure limit (STEL): A 15-minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
TWA	TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.
UN	United Nations.
WHO	World health organisation.

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End of Safety data Sheet