Avatar® insecticide

Version 1.0 Revision Date 03.01.2018

Document no. 13000000325

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This SDS adheres to the standards and regulatory requirements of Australia and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE S	SUBS	TANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product name	:	Avatar® insecticide
Other names	:	B10596913
Recommended use of th	e che	mical and restriction on use
Recommended use	:	Insecticide
Manufacturer, importer,	suppl	ier
Company	:	FMC Australasia Pty Ltd
Street address	:	Building B' Level 2, 12 Julius Avenue,
		NORTH RYDE, NSW 2113
		Australia
Telephone	:	(02) 9923 6111
Telefax	:	(02) 9923 6011
Emergency telephone	:	(02) 9923 6275 (Transport Emergency)
number		(24 hr Emergency Medical Information: 1800 674 415)

2. HAZARDS IDENTIFICATION

Product hazard classification

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Acute toxicity (Oral) :		Category 4	
Specific target organ :		Category 2 (Central nervous system)	
toxicity - single exposure			
Specific target organ :		Category 2 (Blood)	
toxicity - repeated			
exposure			
Acute aquatic toxicity :		Category 2	
Chronic aquatic toxicity :		Category 2	
Endpoints which are not class	ss	ified, cannot be classified or are not applicable are not shown.	

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Signal word : Warning	
Hazardous warnings : Harmful if swallowed. May cause damage to organs. (Central nervous system) May cause damage to organs through prolonged or repeated exposure. (Bloc Toxic to aquatic life with long lasting effects.	ıd)
Precautionary : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. statements Wash skin thoroughly after handling.	

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	Do not eat, drink or smoke when using this product.				
	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.				
	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.				
	Get medical advice/ attention if you feel unwell.				
	Collect spillage.				
	Store locked up.				
	Dispose of contents/ container to an approved waste disposal plant.				
3. COMPOSITION/INFORMATION ON INGREDIENTS					

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Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
Indoxacarb Other Ingradianta	173584-44-6	30 % 70 %
Other Ingredients		10 %

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Inhalation		Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.
Skin contact		Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use.
Eye contact	:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion	:	Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	:	No information available.
Protection of first-aiders	:	No information available.
Notes to physician	:	Treat symptomatically.
5. FIREFIGHTING MEASURES		
Suitable extinguishing media	:	Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet, (contamination risk)
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Specific hazards	: Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO2) Nitrogen oxides (NOx)
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
Specific extinguishing methods	: No information available.
Further information	: Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.
Hazchem Code	: 2Z

6. ACCIDENTAL RELEASE MEASURES

akage or spillage if safe to do so. Use appropriate container to
ntal contamination. Do not flush into surface water or sanitary o not allow material to contaminate ground water system. Local d be advised if significant spillages cannot be contained. If the us, the contaminated material must be collected for subsequent osal. If the product contaminates rivers and lakes or drains inform ities.
s - small spillage Soak up with inert absorbent material. Sweep spillage and collect in suitable container for disposal. s - large spillage Avoid dust formation. Contain spillage, pick up y protected vacuum cleaner or by wet-brushing and transfer to a osal according to local regulations (see section 13). Large spills ed mechanically (remove by pumping) for disposal. Collect ealable (metal/plastic) containers. Collect and contain
sorbent and dike material for disposal.

Handling

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Technical measures/Precautions	:	Use only according to our recommendations. Use only clean equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wear personal protective equipment. For personal protection see section 8. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. Provide appropriate exhaust ventilation at places where dust is formed. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Avoid exceeding the given occupational exposure limits (see section 8).
Precautions for safe handling	:	Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.
Storage		
Suitable storage conditions	:	Advice on common storage: No special restrictions on storage with other products.
		Storage period: Stable under recommended storage conditions.
		Storage period: Storage temperature: > 0 °C

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No information available.

Engineering measures	:	Ensure adequate ventilation, especially in confined areas. Provide for appropriate exhaust ventilation and dust collection at machinery.
Biological occupational exposure limits	:	No information available.

Personal protective equipment

Respiratory protection	:	None specified.
Hand protection	:	Material: Polyvinyl chloride - PVC Glove length: elbow length
Eye protection	:	Opening the container and preparing spray:, Face-shield, Goggles
Skin protection	:	When opening the container, preparing spray and using the prepared spray:, Wear cotton overalls buttoned to neck and wrist, and a washable hat., elbow- length PVC gloves
Hygiene measures	:	Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing dust or vapour.
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

Physical state Form Colour	: solic : dry, : dark	free flowing granules
Odour	: mild	woody
Odour Threshold	: not	determined

pH : 7.5 (10 g/l) (20 °C)

Melting point/freezing point

Melting point/range : No	ot available for this mixture.
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Initial boiling point and boiling range

No information available.

Flash point	:	Not applicable
Evaporation rate	:	No information available.
Flammability (solid, gas)	:	Does not sustain combustion. Method: Flammability (solids)

Upper/lower flammability or explosive limits

Upper explosion limit Lower explosion limit	:	No information available. No information available.
Vapour pressure	:	Not available for this mixture.
Vapour density	:	No information available.
Density Specific gravity (Relative density) Bulk density	:	0.8 800 kg/m3
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n- octanol/water	:	No information available.
Auto-ignition temperature Auto-ignition temperature	:	not auto-flammable
Decomposition temperature	:	No information available.
Viscosity Viscosity, kinematic	:	not determined
Molecular weight	:	No information available.
Other data		

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Phys-chem data	:	No other data to be specially mentioned.		
10. STABILITY AND REACTIVIT	Y			
Reactivity	:	No hazards to be specially mentioned.		
Chemical stability		 The product is chemically stable under recommended conditions of storage, use and temperature. No decomposition if stored and applied as directed. 		
Possibility of hazardous reactions		No dangerous reaction known under conditions of normal use. Polymerization will not occur.		
Conditions to avoid		: To avoid thermal decomposition, do not overheat. Under severe dusting conditions, this material may form explosive mixtures in air.		
Materials to avoid	: No materials to be especially mentioned.			
Hazardous decomposition products	: Hazardous decomposition products Hydrogen fluoride, Hydrogen chloride gas			
11. TOXICOLOGICAL INFORMA Acute toxicity Oral Avatar® insecticide		N : LD50/Rat male: 1,867 mg/kg LD50/Rat female: 687 mg/kg		
Inhalation Avatar® insecticide		: LC50/4 h/Rat(dust/mist): > 5.6 mg/l		
Dermal Avatar® insecticide		: LD50/Rat: > 5,000 mg/kg		
Skin corrosion/irritation Avatar® insecticide		: Species: Rabbit Result: No skin irritation		
Serious eye damage/eye irritation . Avatar® insecticide : Species: Rabbit Result: No eye irritation . Minimal effects that do not meet the threshold for classification.		: Species: Rabbit Result: No eye irritation		
Respiratory or skin sensiti Avatar® insecticide	satio	on : Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.		
Germ cell mutagenicity Indoxacarb		: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.		
Carcinogenicity Indoxacarb		: Animal testing did not show any carcinogenic effects.		
Reproductive toxicity				

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Indoxacarb	: Reproductive toxicity: Animal testing did not show any effects on fertility. No toxicity to reproduction Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.	
Specific Target Organ Toxicity Specific target organ toxicity - single Indoxacarb	e exposure : Target Organs: Central nervous system The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.	
Specific target organ toxicity - repea Avatar® insecticide	ated exposure : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.	
Aspiration hazard Avatar® insecticide	: The mixture does not have properties associated with aspiration hazard potential.	
Other		
Indoxacarb	 Repeated dose toxicity: Inhalation/Rat Target Organs: Central nervous system, Blood Central nervous system effects, Incoordination, Increased mortality or reduced survival, altered hematology Oral/multiple species Target Organs: Blood altered hematology 	

12. ECOLOGICAL INFORMATION

Ecotoxicity effects Acute and prolonged toxicity to fish Avatar® insecticide	.C50/96 h/C	ncorhynchus mykiss (rainbow trout): 1.8 mg/l
Toxicity to aquatic plants Avatar® insecticide	EbC50/72 h/	Pseudokirchneriella subcapitata (green algae): >1.2 mg/l
Acute toxicity to aquatic invertebrates Avatar® insecticide	EC50/48 h/E	aphnia magna (Water flea): 1.7 mg/l
Chronic toxicity to fish Indoxacarb	Early Life-St ng/l	age/NOEC/90 d/Oncorhynchus mykiss (rainbow trout): 0.15
Chronic toxicity to aquatic Invertebrates Indoxacarb	NOEC/21 d/	Daphnia magna (Water flea): 0.9 mg/l
Persistence and degradability Avatar® insecticide	Not readily b ngredient.	iodegradable. Estimation based on data obtained on active
Bioaccumulation Avatar® insecticide	Does not bio	accumulate. Information refers to the main component.

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Mobility in soil	
No information available.	
Other adverse effects No information available.	
. DISPOSAL CONSIDERATIO	NS
Waste disposal methods	: Dispose of in accordance with local regulations.
Contaminated packaging	: Triple or preferably pressure rinse containers before disposal.Rinse empty containers with water and use the rinse-water to prepare the working solution.If recycling, replace cap and return clean containers to recycler or designated collection point.Empty containers can be landfilled, when in accordance with the local regulations.Puncture container to avoid re-use.If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.Empty containers and product should not be burnt.
. TRANSPORT INFORMATION Hazchem Code	۱ : 2Z
IMDG	0077
UN number Proper shipping name	 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Indoxacarb)
Class	: 9
Packing group	: 111
Marine pollutant	: yes
ΙΑΤΑ	
UN number	: 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Indoxacarb)
Class	: 9
Packing group	: 111
Matters needing attention for transportation	: Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01). Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section

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15. REGULATORY INFORMATION

SUSMP: Schedule 6

APVMA number : 52546

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16. OTHER INFORMATION

References

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Date of first preparation	:	03.01.2018
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Version	:	1.0

Take notice of the directions of use on the label.

Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.