

Avatar® eVo INSECTICIDE

Version 2.0

Revision Date 15.11.2018

Document no. 130000142066

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 SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Avatar® eVo INSECTICIDE

Other names : B13162878

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer, importer, supplier

Company : FMC Australasia Pty Ltd
 Street address : Building B' Level 2, 12 Julius Avenue,
 NORTH RYDE, NSW 2113
 Australia
 Telephone : 1800 066 355 Customer service 1800 901 939
 Telefax : 1800 355 896

Emergency telephone number : 1800 033 111 (Transport Emergency)
 1800 033 111 (24 hr Emergency Medical Information)

2. HAZARDS IDENTIFICATION
Product hazard classification

Acute toxicity (Oral) : Category 4
 Specific target organ toxicity - single exposure : Category 2 (Central nervous system)
 Specific target organ toxicity - repeated exposure : Category 1 (Central nervous system)
 Acute aquatic toxicity : Category 1
 Chronic aquatic toxicity : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Danger

Hazardous warnings : Harmful if swallowed.
 May cause damage to organs. (Central nervous system)
 Causes damage to organs through prolonged or repeated exposure. (Central nervous system)
 Very toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET



Avatar® eVo INSECTICIDE

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Precautionary statements : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
IF SWALLOWED: Call a POISON CENTER or doctor/ physician 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

Chemical nature : Mixture

Components

Chemical Name	CAS-No.	Concentration
Indoxacarb	173584-44-6	30 %
Silica gel, precipitated, crystalline-free	112926-00-8	10 - 15%
Other Ingredients		55 - 60%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26.

- Inhalation** : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary.
- Skin contact** : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- 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. Never 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)

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Avatar® eVo INSECTICIDE

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- Unsuitable extinguishing media** : High volume water jet, (contamination risk)
- Specific hazards** : No information available.
- Special protective equipment for firefighters** : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods** : No information available.
- Further information** : (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

- Personal precautions, protective equipment and emergency procedures** : Avoid contact with the skin and the eyes.
- Environmental precautions** : No information available.
- Methods and materials for containment and cleaning up** : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.

7. HANDLING AND STORAGE

Handling

- Technical measures/Precautions** : Will irritate the eyes and skin. Wash hands after use.
- Precautions for safe handling** : No information available.

Storage

- Suitable storage conditions** : Store locked up. Store in original container. Store in a cool dry area away from feed, seed or fertilizer. Store away from animals. Keep tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	Occupational Exposure Limits	Regulation
Silica gel, precipitated, crystalline-free		
TWA	10 mg/m ³ (Inhalable dust.)	AU NOEL (12 2011)

Avatar® eVo INSECTICIDE

Version 2.0

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Document no. 130000142066

	This value is for inhalable dust containing no asbestos and < 1% crystalline silica.	
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Engineering measures : Use only with adequate ventilation.

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.

Hygiene measures : Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance (Physical state, form, colour, etc.)

Physical state : solid
Form : granular
Colour : white

Odour : Faint odour

Odour Threshold : No information available.

pH : 8.4

Melting point/freezing point

No information available.

Initial boiling point and boiling range

No information available.

Flash point : No information available.

Evaporation rate : No information available.

Flammability (solid, gas) : The product is not flammable.

Upper/lower flammability or explosive limits

Upper explosion limit : No information available.
Lower explosion limit : No information available.

Vapour pressure : No information available.

Vapour density : No information available.

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Version 2.0

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DensityBulk density : 400 kg/m³
loose440 kg/m³
Tapped**Solubility(ies)**

Water solubility : No information available.

Partition coefficient: n-octanol/water

: No information available.

Auto-ignition temperature

Auto-ignition temperature : 207 °C

Decomposition temperature

: No information available.

Viscosity

Viscosity, kinematic : No information available.

Molecular weight

: No information available.

10. STABILITY AND REACTIVITY**Reactivity** : No hazards to be specially mentioned.**Chemical stability** : Stable at normal temperatures and storage conditions.**Possibility of hazardous reactions** : No information available.**Conditions to avoid** : No information available.**Materials to avoid** : No materials to be especially mentioned.**Hazardous decomposition products** : No materials to be especially mentioned.**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Oral

Avatar® eVo INSECTICIDE : LD50/Rat: 550 mg/kg

Inhalation

Indoxacarb : LC50/4 h/Rat female: 4.2 mg/l

Silica gel, precipitated, crystalline-free : LC50/4 h/Rat(dust/mist)
Method: OECD Test Guideline 403An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.,
Information given is based on data obtained from similar substances.

Dermal

Avatar® eVo INSECTICIDE : LD50/Rat male and female: > 5,000 mg/kg

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Version 2.0

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Skin corrosion/irritation

Avatar® eVo INSECTICIDE : Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Avatar® eVo INSECTICIDE : Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

Avatar® eVo INSECTICIDE : Species: Mouse
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.
Silica gel, precipitated, crystalline-free : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Information given is based on data obtained from similar substances.

Carcinogenicity

Indoxacarb : Animal testing did not show any carcinogenic effects.
Silica gel, precipitated, crystalline-free : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.
Information given is based on data obtained from similar substances.

Reproductive toxicity

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.
Silica gel, precipitated, crystalline-free : Teratogenicity: Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

Specific Target Organ Toxicity
Specific target organ toxicity - single exposure

Indoxacarb : Target Organs: Central nervous system
The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.
Silica gel, precipitated, crystalline-free : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Silica gel, precipitated, crystalline-free : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Silica gel, precipitated, crystalline-free : No aspiration toxicity classification

Other

Indoxacarb : Repeated dose toxicity:
Inhalation/Rat

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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

Silica gel, precipitated,
 crystalline-free : Repeated dose toxicity:
 Oral/Rat
 NOAEL: 4,000 mg/kg
 Respiratory effects

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Acute and prolonged toxicity to fish

Silica gel, precipitated, crystalline-free : LC50/96 h/Danio rerio (zebra fish): > 10,000 mg/l
 Method: OECD Test Guideline 203
 Information given is based on data obtained from similar substances.

Toxicity to aquatic plants

Silica gel, precipitated, crystalline-free : ErC50/72 h/Desmodesmus subspicatus (green algae): > 10,000 mg/l
 Information given is based on data obtained from similar substances.
 NOEC/72 h/Desmodesmus subspicatus (green algae): 10,000 mg/l
 Information given is based on data obtained from similar substances.

Acute toxicity to aquatic invertebrates

Avatar® eVo INSECTICIDE : EC50/48 h/Daphnia magna (Water flea): 0.00062 mg/l

Chronic toxicity to fish

Indoxacarb : Early Life-Stage/NOEC/90 d/Oncorhynchus mykiss (rainbow trout): 0.15 mg/l

Chronic toxicity to aquatic Invertebrates

Indoxacarb : NOEC/21 d/Daphnia magna (Water flea): 0.9 mg/l

Persistence and degradability

Indoxacarb : Result: Readily biodegradable

Bioaccumulation

Indoxacarb : Species: Lepomis macrochirus (Bluegill sunfish)
 Exposure time: 21 d
 Bioconcentration factor (BCF): 77.3
 Method: OECD Test Guideline 305
 Does not bioaccumulate. Information source: Internal study report

Silica gel, precipitated, crystalline-free : Does not bioaccumulate.

Mobility in soil

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

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Waste disposal methods : Dispose of in accordance with local regulations.

Contaminated packaging : Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. Puncture and bury empty containers in a local authority landfill. 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.

14. TRANSPORT INFORMATION

ADG

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Indoxacarb)
Class : 9
Packing group : III
Hazchem Code : 2Z

IMDG

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Indoxacarb)
Class : 9
Packing group : III
Marine pollutant : yes (Indoxacarb)

IATA

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Indoxacarb)
Class : 9
Packing group : III

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 5 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 2.10.2.7 of IMDG code and IATA special provision A197.

15. REGULATORY INFORMATION

SUSMP: Schedule 6

16. OTHER INFORMATION

References

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

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