

SAFETY DATA SHEET



AVAUNT® 150 EC

Version 1.1

Revision Date 2018.07.12

Document no. 130000027381

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

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Chemicals Name : AVAUNT® 150 EC

Other names : B12109700
DPX-KN128 150EC

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer, importer, supplier, representative office

Company : FMC Taiwan Co. Ltd.
Street address : 3F, No. 179, Fuhuiyuan Blvd, Xitun Dist., Taichung, Taiwan
Telephone : +886 (4) 2254 2785
Telefax : +886 4 2254 2831

Emergency telephone number : +886 2 28757525
(in case of chemical spill, fire or poisoning accident)

2. HAZARDS IDENTIFICATION

Product hazard classification

Flammable liquids : Category 4
Acute toxicity (Oral) : Category 4
Skin corrosion/irritation : Category 3
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 2
Chronic aquatic toxicity : Category 2
Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Danger

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- Hazardous warnings** :
- Combustible liquid.
 - Harmful if swallowed.
 - Causes mild skin irritation.
 - May cause damage to organs. (Central nervous system)
 - Causes damage to organs through prolonged or repeated exposure. (Central nervous system)
 - Toxic to aquatic life with long lasting effects.
- Precautionary statements** :
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 - Wash skin thoroughly after handling.
 - Do not eat, drink or smoke when using this product.
 - Wear protective gloves/ eye protection/ face protection.
 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
 - IF exposed or concerned: Call a POISON CENTER/doctor.
 - Get medical advice/ attention if you feel unwell.
 - If skin irritation occurs: Get medical advice/ attention.
 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
 - Collect spillage.
 - Store in a well-ventilated place. Keep cool.
 - 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 (Indoxacarb)	173584-44-6	15.8 %
Other Ingredients (Other Ingredients)		84.2 %

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

First aid measures for different exposure routes

- 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** :
- 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. Call a poison control center or doctor for treatment advice.

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Main symptoms and hazards : No information available.

Protection of first-aiders : No information available.

Notes to physician : No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

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.

Additional advice : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE**Handling**

Technical measures/Precautions : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Precautions for safe handling : No information available.

Storage

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Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store product in original container only in a location inaccessible to children and pets. Not for use or storage in or around the home. Keep out of the reach of children.

Storage period: Storage temperature: > 0 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

No occupational exposure limit values are applicable.

Engineering measures : Use only with adequate ventilation.

Biological occupational exposure limits : No information available.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection : Material: Protective gloves

Eye protection : Wear protective eyewear to prevent contact with this substance.

Skin protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash all protective clothing after use.

Protective measures : 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. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

Physical state : liquid
Form : liquid
Colour : amber

Odour : faint burn smell

Odour Threshold : No information available.

pH : 6.6 (20 °C)
(1% solution in water)

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Melting point/freezing point

No information available.

Initial boiling point and boiling range

No information available.

Flash point : 69 °C**Evaporation rate** : No information available.**Flammability (solid, gas)** : No information available.**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.**Density**

Density : (20 °C)

Solubility(ies)

Water solubility : No information available.

Partition coefficient: n-octanol/water : No information available.**Auto-ignition temperature**

No information available.

Decomposition temperature : No information available.**Viscosity**

Viscosity, kinematic : No information available.

Viscosity, dynamic : 5.6 mPa.s (25 °C)

Molecular weight : No information available.**10. STABILITY AND REACTIVITY****Reactivity** : No information available.**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** : None reasonably foreseeable.**Hazardous decomposition products** : No information available.

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11. TOXICOLOGICAL INFORMATION**Acute toxicity****Oral**

AVAUNT® 150 EC : LD50/Rat female: 977 mg/kg

Inhalation

AVAUNT® 150 EC : The substance or mixture has no acute inhalation toxicity

Dermal

AVAUNT® 150 EC : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritationAVAUNT® 150 EC : Species: Rabbit
Result: Mild skin irritation**Serious eye damage/eye irritation**AVAUNT® 150 EC : Species: Rabbit
Result: No eye irritation**Respiratory or skin sensitisation**AVAUNT® 150 EC : 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 toxicityIndoxacarb : 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 exposure**Indoxacarb : Target Organs: Central nervous system
The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.**Specific target organ toxicity - repeated exposure**

Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration hazard

AVAUNT® 150 EC : No aspiration toxicity classification

OtherIndoxacarb : 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

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12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Acute and prolonged toxicity to fish

AVAUNT® 150 EC : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 7.0 mg/l

Toxicity to aquatic plants

AVAUNT® 150 EC : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 16 mg/l

Acute toxicity to aquatic invertebrates

AVAUNT® 150 EC : EC50/48 h/Daphnia magna (Water flea): 1.67 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

Mobility in soil

No information available.

Other adverse effects

AVAUNT® 150 EC : See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION**IMDG**

UN number : 3082
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Indoxacarb)
Transport hazard class : 9
Packing group : III
Marine pollutant : yes

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IATA

UN number : 3082
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Indoxacarb)
Transport hazard class : 9
Packing group : III

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not applicable

15. REGULATORY INFORMATION

Occupational Health & Safety Installation Regulation
Regulation of Labeling and Hazard Communication of Dangerous and Harmful Chemicals
Standards of Permissible Exposure Limits in Workplace
Rules on Road Traffic Safety
Criteria Governing Methods of and Facilities for Storage, Clearance and Disposal of Industrial Wastes
Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations

16. OTHER INFORMATION

References

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Date of first preparation : 2018.01.03
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Take notice of the directions of use on the label.

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

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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.