

SAFETY DATA SHEET



AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

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

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

Product name : AVAUNT® EC

Other names : B12109700
DPX-KN128 150EC
Dhawa® EC

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 INDIA PRIVATE LIMITED
Street address : Embassy Star, No. 8,
Palace Road, High Grounds, Gurgaon - 122002, Haryana
Bangalore – 560 052
India

Customer care
representative: : +91-80-22384311,

**For fire, leak, spill or
other accident
emergencies:** : U.S.A.: +1 800 / 424 9300 (CHEMTREC)
All other countries: +1 703 / 527 3887 (CHEMTREC - Collect)

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

SAFETY DATA SHEET



AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

- 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	173584-44-6	15.84 %
Octanol		1 - 5%
Alkyl Sulfonate Salt		5 - 10%
Other Ingredients		69.16 - 78.16%

4. FIRST AID MEASURES

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.

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.

SAFETY DATA SHEET



AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

Most important symptoms/effects, acute and delayed : 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

SAFETY DATA SHEET



AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

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)

AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

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.

AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral

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

Inhalation

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

Dermal

AVAUNT® EC : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritationAVAUNT® EC : Species: Rabbit
Result: Mild skin irritation**Serious eye damage/eye irritation**AVAUNT® EC : Species: Rabbit
Result: No eye irritation**Respiratory or skin sensitisation**AVAUNT® 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.

Octanol : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Alkyl Sulfonate Salt : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals. Evidence suggests this substance does not cause genetic damage in cultured mammalian cells. Evidence suggests this substance does not cause genetic damage in cultured bacterial cells. Information given is based on data obtained from similar substances.

Carcinogenicity

Indoxacarb : Animal testing did not show any carcinogenic effects.

Octanol : 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.Octanol : Reproductive toxicity: No toxicity to reproduction
Animal testing showed no reproductive toxicity.
No effects on or via lactation
Information given is based on data obtained from similar substances.
Teratogenicity: Animal testing showed no developmental toxicity.Alkyl Sulfonate Salt : Reproductive toxicity: Animal testing showed no reproductive 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

AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

Octanol	:	The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.
Alkyl Sulfonate Salt	:	Target Organs: Respiratory system The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Specific target organ toxicity - repeated exposure		
Octanol	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Alkyl Sulfonate Salt	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard		
AVAUNT® EC	:	No aspiration toxicity classification
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
Octanol	:	Repeated dose toxicity: Ingestion/Rat 90 d NOAEL: 250 mg/kg LOAEL: 500 mg/kg Method: OECD Test Guideline 408 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
Alkyl Sulfonate Salt	:	Repeated dose toxicity: Skin contact/Rat NOAEL: > 1,000 mg/kg Method: OECD Test Guideline 410

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Acute and prolonged toxicity to fish

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

Toxicity to aquatic plants

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

Acute toxicity to aquatic invertebrates

AVAUNT® 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

SAFETY DATA SHEET



AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

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.
Octanol : Result: Biodegradable
Alkyl Sulfonate Salt : Result: Not rapidly 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
Octanol : Bioaccumulation is unlikely.

Mobility in soil

No information available.

Other adverse effects

AVAUNT® 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
Hazchem Code : .3Z
Marine pollutant : yes (Indoxacarb)

IATA

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

SAFETY DATA SHEET



AVAUNT® EC

Version 1.0

Revision Date 08.01.2018

Document no. 130000027381

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

Product subject to regulatory requirements under the Insecticides Act, 1968 and Insecticides Rules, 1971

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet

1. The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through April, 2001
2. Manufacture, Storage and Import of Hazardous Chemical Rules 1989, as amended through January 2000

References

SDS Number: 130000027381

Revision Date/Version

Revision Date : 08.01.2018
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.