

# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** AVAUNT ®, EC (ABAHT, KE)

**Other means of identification**

**Product code** 50000122

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Insecticide  
stance/Mixture

Recommended restrictions : Use as recommended by the label.  
on use

#### 1.3 Details of the supplier of the safety data sheet

**Supplier Address**

FMC Ukraine LLC  
8 Illinska Street  
04070 Kyiv  
Ukraine

Telephone: Website: fmc.com.ua  
E-mail address: SDS-Info@fmc.com, info@fmc.com.ua .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Ukraine: 380-947101374 (CHEMTREC)

Medical emergency:  
All other countries: +1 651 / 632-6793 (Collect)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4 H302: Harmful if swallowed.

Skin irritation, Category 2 H315: Causes skin irritation.

Specific target organ toxicity - repeated H372: Causes damage to organs through pro-  
exposure, Category 1 longed or repeated exposure.

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

- P260 Do not breathe mist or vapours.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

- P314 Get medical advice/ attention if you feel unwell.
- P391 Collect spillage.

**Disposal:**

- P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

Hazardous components which must be listed on the label:

indoxacarb (ISO)  
calcium dodecylbenzenesulphonate

#### Additional Labelling

EUH208 Contains indoxacarb (ISO). May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version 1.0      Revision Date: 13.06.2025      SDS Number: 50000122      Date of last issue: -  
Date of first issue: 13.06.2025

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
indoxacarb (ISO)	173584-44-6 607-700-00-0	Acute Tox. 3; H301 Acute Tox. 4; H332 Skin Sens. 1B; H317 STOT RE 1; H372 (Heart, Nervous system, Blood) Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 4; H413	>= 3 - < 10
2-ethylhexan-1-ol	104-76-7 203-234-3	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory sys- tem)	>= 1 - < 10

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : First Aid responders should pay attention to self-protection  
and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific

## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

personal protective equipment.

- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off with soap and water.  
Get medical attention immediately if irritation develops and persists.  
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : Exposure may result in loss of coordination and tremors.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : Treat symptomatically.  
Immediate medical attention is required in case of ingestion.
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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.  
High volume water jet

**5.2 Special hazards arising from the substance or mixture**

- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Chlorinated compounds  
Fluorinated compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Hydrogen cyanide  
Sulphur oxides

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
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.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.  
Do not touch or walk through the spilled material.  
If it can be safely done, stop the leak.  
Use personal protective equipment.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For disposal considerations see section 13.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absorbent material.  
Pick up and transfer to properly labelled containers.  
Keep in suitable, closed containers for disposal.

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : Avoid contact with skin, eyes and clothing. Do not inhale aerosol. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep tightly closed in a dry, cool and well-ventilated place.  
Observe label precautions. Keep container closed when not in use. Keep locked up or in an area accessible only to qualified or authorised persons. Keep in properly labelled containers.  
No smoking. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : The product is stable under normal conditions of warehouse storage. Protect from frost and extreme heat. Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended.  
The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.
- Recommended storage temperature : > 0 °C
- Further information on storage stability : Do not freeze.

No decomposition if stored and applied as directed.

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version 1.0      Revision Date: 13.06.2025      SDS Number: 50000122      Date of last issue: -  
Date of first issue: 13.06.2025

### 7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-ethylhexan-1-ol	104-76-7	MAC (aerosol)	10 mg/m <sup>3</sup>	UA OEL
	Further information: Danger class 3			
		MAC (Vapour)	50 mg/m <sup>3</sup>	UA OEL
	Further information: Danger class 4			
		TWA	1 ppm 5,4 mg/m <sup>3</sup>	2017/164/EU
	Further information: Indicative			

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Fatty acids, C8-10, Me esters	Workers	Inhalation	Long-term systemic effects	73,06 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	103,6 mg/kg
	Consumers	Inhalation		12,86 mg/m <sup>3</sup>
	Consumers	Dermal		51,8 mg/kg
	Consumers	Oral		3,7 mg/kg

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Fatty acids, C8-10, Me esters	Fresh water	0,001 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	3,92 mg/l
	Fresh water sediment	0,026 mg/kg
	Marine sediment	0,003 mg/kg
	Soil	0,009 mg/kg
	Oral	33 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate,

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: amber
Odour	: Pungent Sweet Pear
Odour Threshold	: No data available
pH	: 5,4 Method: CIPAC MT 75.3 In a 1% aqueous dispersion
Melting point/ range	: No data available
Boiling point/boiling range	: No data available
Flash point	: 69 °C Method: Regulation (EC) No. 440/2008, Annex, A.9
Evaporation rate	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 0,9494Method: OECD Test Guideline 109
Density	: 0,9494 g/cm3 Method: OECD Test Guideline 109
Solubility(ies)	
Water solubility	: emulsifiable



# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	255 °C Method: EEC A.15
Decomposition temperature	:	Hazardous decomposition products formed under fire conditions.
Viscosity	:	
Viscosity, kinematic	:	4,68 mm <sup>2</sup> /s (20 °C) 2,95 mm <sup>2</sup> /s (40 °C)
Explosive properties	:	Not explosive Method: Regulation (EC) No. 440/2008, Annex, A.14
Oxidizing properties	:	Non-oxidizing

### 9.2 Other information

Flammability (liquids)	:	Not highly flammable, ignitable
Surface tension	:	28,9 mN/m, OECD Test Guideline 115, (undiluted) 39,3 mN/m, OECD Test Guideline 115, (Aqueous solution)
Molecular weight	:	Not applicable
Particle size	:	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
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Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks. Heating of the product will produce harmful and irritant vapours.
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### 10.5 Incompatible materials

Materials to avoid	:	Strong oxidizing agents Strong acids and strong bases
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### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.

## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Product:**

- |                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat, female): 977 mg/kg<br>Method: OECD Test Guideline 425<br>Assessment: The component/mixture is moderately toxic after single ingestion.   |
| Acute inhalation toxicity | : | LC50 (Rat): > 5,2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>GLP: yes<br>Assessment: The substance or mixture has no acute inhalation toxicity                  |
| Acute dermal toxicity     | : | LD50 (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 402<br>Symptoms: Irritation, Reduced body weight<br>GLP: yes<br>Assessment: The substance or mixture has no acute dermal toxicity<br>Remarks: no mortality |

**Components:****indoxacarb (ISO):**

- |                           |   |  |
|---------------------------|---|--|
| Acute inhalation toxicity | : | LC50 (Rat, female): 4,2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Symptoms: nasal discharge, lethargy<br>GLP: yes |
| Acute dermal toxicity     | : | LD50 (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 402<br>Symptoms: Irritation<br>GLP: yes<br>Assessment: The substance or mixture has no acute dermal toxicity  |

**calcium dodecylbenzenesulphonate:**

- |                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat, male and female): 1.300 mg/kg<br>Remarks: Based on data from similar materials |
| Acute inhalation toxicity | : | Remarks: Not classified   |
| Acute dermal toxicity     | : | LD50 (Rat, male and female): > 2000 milligram per kilogram                                |

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### 2-ethylhexan-1-ol:

Acute oral toxicity : LD50 (Rat, male): 2.047 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4,3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 3.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

#### Product:

Species : Rabbit  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 404  
Result : Skin irritation

#### Components:

##### indoxacarb (ISO):

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
GLP : yes  
Remarks : Information source: Internal study report

##### calcium dodecylbenzenesulphonate:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

### 2-ethylhexan-1-ol:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

### Serious eye damage/eye irritation

#### Product:

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405

# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Result	:	No eye irritation
GLP	:	yes
Remarks	:	Vapours may cause irritation to the eyes, respiratory system and the skin.

### **Components:**

#### **indoxacarb (ISO):**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes
Remarks	:	Information source: Internal study report

#### **calcium dodecylbenzenesulphonate:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye
Remarks	:	Based on data from similar materials

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

#### **2-ethylhexan-1-ol:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irritation to eyes, reversing within 21 days

### **Respiratory or skin sensitisation**

#### **Product:**

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitisation on laboratory animals.
GLP	:	yes

### **Components:**

#### **indoxacarb (ISO):**

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Assessment	:	The product is a skin sensitizer, sub-category 1B.
Method	:	OECD Test Guideline 429
Result	:	May cause sensitisation by skin contact.
GLP	:	yes

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Test Type	: Maximisation Test
Species	: Guinea pig
Assessment	: The product is a skin sensitiser, sub-category 1B.
Method	: OECD Test Guideline 406
Result	: Causes sensitisation.
GLP	: yes

Remarks	: Information source: Internal study report
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### calcium dodecylbenzenesulphonate:

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro	: Test Type: Ames test Method: OECD Test Guideline 471 Result: negative  Test Type: Ames test Method: OECD Test Guideline 472 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity- Assessment	: Test on bacterial cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.

#### Components:

##### **indoxacarb (ISO):**

Genotoxicity in vitro	: Test Type: reverse mutation assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative  Test Type: gene mutation test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Method: OECD Test Guideline 474

# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Result: negative

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **calcium dodecylbenzenesulphonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Species: Rat (male and female)  
Application Route: Oral  
Exposure time: 90 d  
Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **2-ethylhexan-1-ol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### **Carcinogenicity**

#### **Product:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

#### **Components:**

##### **indoxacarb (ISO):**

Species : Rat, female  
Application Route : Oral  
Exposure time : 24 m  
: 2,13 mg/kg bw/day  
Result : negative

Species : Rat, male  
Application Route : Oral  
Exposure time : 24 m  
: 2,4 mg/kg bw/day  
Result : negative

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### **calcium dodecylbenzenesulphonate:**

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 720 d
NOAEL	: 250 mg/kg body weight
Result	: negative
Remarks	: Based on data from similar materials

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### **2-ethylhexan-1-ol:**

Species	: Rat
Application Route	: Oral
Exposure time	: 24 month(s)
Result	: negative

### **Reproductive toxicity**

#### **Product:**

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### **Components:**

#### **indoxacarb (ISO):**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Dose: 0, 20, 60, 100 parts per million  
General Toxicity - Parent: NOEL: 20 ppm  
Fertility: NOEL: 60 ppm  
Early Embryonic Development: NOEL: 20 ppm  
Symptoms: Reduced body weight, reduced food consumption  
Target Organs: spleen

Effects on foetal development : Test Type: Developmental toxicity study  
Species: Rabbit  
Dose: 0, 250, 500, 1000 mg/kg bw/day  
General Toxicity Maternal: NOEL: 500 mg/kg bw/day  
Developmental Toxicity: NOEL: 500 mg/kg bw/day  
Symptoms: Reduced body weight, Reduced foetal weight, Skeletal malformations  
Method: EPA OPP 83-3  
GLP: yes

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.  
Animal testing did not show any effects on foetal develop-

# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

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### calcium dodecylbenzenesulphonate:

- Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Ingestion  
General Toxicity - Parent: NOAEL: 400 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Developmental Toxicity: NOAEL: 600 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### 2-ethylhexan-1-ol:

- Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: negative

### STOT - single exposure

#### Components:

#### 2-ethylhexan-1-ol:

- Assessment : May cause respiratory irritation.

### STOT - repeated exposure

#### Components:

#### indoxacarb (ISO):

- Target Organs : Blood, Nervous system, Heart  
Assessment : May cause damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

#### indoxacarb (ISO):

- Species : Rat, female  
NOAEL : 1,7 mg/kg



# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

LOAEL : 4,1 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
GLP : yes  
Target Organs : Blood  
Symptoms : Reduced body weight, reduced food consumption

Species : Rat, male  
NOAEL : 3,2 mg/kg  
LOAEL : 6,6 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
GLP : yes  
Symptoms : Reduced body weight, reduced food consumption

Species : Rat, female  
NOAEL : 0,685 mg/kg, 10 ppm  
LOAEL : 3,3 mg/kg, 50 ppm  
Application Route : Oral  
Exposure time : 90 d  
Dose : 0, 10, 50, 100 ppm  
Method : EPA OPP 82-7  
GLP : yes  
Symptoms : Fatality, reduced food consumption, Reduced body weight  
Remarks : No neurotoxicity detected.

Species : Rat, male  
NOAEL : 0,569 mg/kg, 10 ppm  
LOAEL : 5,62 mg/kg, 100 ppm  
Application Route : Oral  
Exposure time : 90 d  
Dose : 0, 10, 100, 200 ppm  
Method : EPA OPP 82-7  
GLP : yes  
Symptoms : Fatality, reduced food consumption, Reduced body weight  
Remarks : No neurotoxicity detected.

Species : Dog, male and female  
NOEL : 1,1 - 1,3 mg/kg  
LOAEL : 2,3 - 2,4 mg/kg  
Application Route : Oral - feed  
Exposure time : 12 m  
Method : OECD Test Guideline 452  
GLP : yes  
Target Organs : Blood  
Symptoms : reduced food consumption, Reduced body weight

### calcium dodecylbenzenesulphonate:

Species : Rat, male and female  
NOAEL : 85 mg/kg  
LOAEL : 145 mg/kg

# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Application Route : Oral  
Exposure time : 9 Months  
Remarks : Based on data from similar materials

Species : Rat, male  
LOAEL : 286 mg/kg  
Application Route : Skin contact  
Exposure time : 15 Days  
Remarks : Based on data from similar materials

Species : Rat, male and female  
NOAEL : 100 mg/kg bw/day  
LOAEL : 200 mg/kg bw/day  
Application Route : Oral - gavage  
Exposure time : 28 - 54 Days  
Method : OECD Test Guideline 422  
Remarks : Based on data from similar materials

### 2-ethylhexan-1-ol:

Species : Rat  
: 250 mg/kg  
Application Route : Oral  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

### Neurological effects

#### Product:

Remarks : Causes neurotoxicity following acute and prolonged exposure

#### Components:

#### indoxacarb (ISO):

Remarks : Neurotoxicity observed in animals studies

### Further information

#### Product:

Remarks : No data available

#### Components:

#### indoxacarb (ISO):

Remarks : Acute effects on nervous system: drowsiness, tremors, paralysis.  
Chronic, additionally: Cyanosis

## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

**SECTION 12: Ecological information****12.1 Toxicity****Product:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7,0 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,67 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 16 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

**Components:****indoxacarb (ISO):**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,65 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Information source: Internal study report
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,90 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,17 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Method: OECD Test Guideline 202  
GLP: yes
- EC50 (Americamysis bahia (mysid shrimp)): 0,0543 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: US EPA Test Guideline OPP 72-3  
GLP: yes  
Remarks: Information source: Internal study report

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (algae)): > 0,0793 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

EC50 (Lemna gibba (duckweed)): > 84,3 mg/l  
Exposure time: 14 d

EC50 (Lemna gibba (duckweed)): > 84,3 mg/l  
End point: Biomass  
Exposure time: 14 d  
Method: US EPA Test Guideline OPP 122-2 & 123-2  
GLP: yes  
Remarks: Information source: Internal study report

(Pseudokirchneriella subcapitata (green algae)): Method: Directive 67/548/EEC, Annex V, C.3.  
GLP: yes  
Remarks: There were no detectable inhibitory effects on the cell density, growth, and growth rate of Pseudokirchneriella subcapitata after 72 or 120 hours exposure at the solubility limit in the test medium.  
Information source: Internal study report

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0,0675 mg/l  
Exposure time: 28 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: Early Life-Stage  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0351 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Static renewal test  
Method: OECD Test Guideline 211  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207  
GLP: yes

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

LC50: > 1.250 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207  
GLP:yes  
Remarks: Information source: Internal study report

Method: OECD Test Guideline 216  
Remarks: No significant adverse effect on nitrogen mineralization.

Method: OECD Test Guideline 217  
Remarks: No significant adverse effect on carbon mineralization.

Toxicity to terrestrial organisms

: NOEL: 0,048 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214

NOEL: 0,163 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213

LD50: 0,068 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214

LD50: 0,232 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213

LD50: 98 mg/kg  
Species: Colinus virginianus (Bobwhite quail)  
Method: US EPA Test Guideline OPP 71-1  
GLP:yes

NOEC: 720 ppm  
Exposure time: 147 d  
End point: Reproduction Test  
Species: Anas platyrhynchos (Mallard duck)  
Method: OECD Test Guideline 206  
GLP:yes

NOEC: 144 ppm

## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

Exposure time: 147 d  
End point: Reproduction Test  
Species: *Colinus virginianus* (Bobwhite quail)  
Method: OECD Test Guideline 206

LC50: > 5.620 ppm  
Exposure time: 5 d  
Species: *Anas platyrhynchos* (Mallard duck)  
Method: US EPA Test Guideline OPP 71-2  
Remarks: Dietary

NOEC: 562 ppm  
Exposure time: 5 d  
Species: *Anas platyrhynchos* (Mallard duck)  
Method: US EPA Test Guideline OPP 71-2  
Remarks: Dietary

LC50: 808 ppm  
Exposure time: 5 d  
Species: *Colinus virginianus* (Bobwhite quail)  
Method: US EPA Test Guideline OPP 71-2  
Remarks: Dietary

NOEC: 316 ppm  
Exposure time: 5 d  
Species: *Colinus virginianus* (Bobwhite quail)  
Method: US EPA Test Guideline OPP 71-1  
Remarks: Dietary

**calcium dodecylbenzenesulphonate:**

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LC50 (*Pimephales promelas* (fathead minnow)): 4,6 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 3,5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (*Pseudokirchneriella subcapitata* (green algae)): 7,9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 (*Pseudokirchneriella subcapitata* (green algae)): 65,4 mg/l  
Exposure time: 72 h

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,65 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

NOEC: 1,18 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : LC50: 1.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50: 1.356 mg/kg  
Exposure time: 14 d  
Species: Colinus virginianus (Bobwhite quail)  
Method: OECD Test Guideline 223

### Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

### 2-ethylhexan-1-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17,1 - 28,2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 3,2 mg/l  
Exposure time: 72 h

EC50 (Desmodesmus subspicatus (green algae)): 11,5 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 16,6 mg/l  
Exposure time: 72 h

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data is available on the product itself.  
Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water

# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

treatment plants.

### **Components:**

#### **indoxacarb (ISO):**

Biodegradability : Result: Not readily biodegradable.

#### **calcium dodecylbenzenesulphonate:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301E

#### **2-ethylhexan-1-ol:**

Biodegradability : Result: Readily biodegradable.

### **12.3 Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: No data is available on the product itself.

Remarks: No data available

### **Components:**

#### **indoxacarb (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 950  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 4,52 (20 °C)  
Method: OECD Test Guideline 107  
GLP: yes

#### **calcium dodecylbenzenesulphonate:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 70,79  
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 4,77 (25 °C)

#### **2-ethylhexan-1-ol:**

Partition coefficient: n-octanol/water : log Pow: 2,9 (25 °C)

### **12.4 Mobility in soil**

#### **Product:**

Distribution among environmental compartments : Remarks: No data is available on the product itself.



# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

### Components:

#### **indoxacarb (ISO):**

Distribution among environmental compartments : Remarks: immobile

Kd: 46 - 150

Stability in soil :

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : See product label for additional application instructions relating to environmental precautions.

No other ecological effects to be specially mentioned.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

#### Components:

#### **indoxacarb (ISO):**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14: Transport information

#### 14.1 UN number

ADR	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

#### 14.2 UN proper shipping name

ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Indoxacarb)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Indoxacarb)
IATA	: Environmentally hazardous substance, liquid, n.o.s. (Indoxacarb)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 9	
IMDG	: 9	
IATA	: 9	

#### 14.4 Packing group

ADR	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
IMDG	
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

### IATA (Cargo)

Packing instruction (cargo aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous

## 14.5 Environmental hazards

### ADR

Environmentally hazardous	:	yes
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### IMDG

Marine pollutant	:	yes
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### IATA (Passenger)

Environmentally hazardous	:	yes
---------------------------	---	-----

### IATA (Cargo)

Environmentally hazardous	:	yes
---------------------------	---	-----

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

#### The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.

METHYL (S)-7-CHLORO-2,3,4A,5-TETRAHYDRO-2-

# SAFETY DATA SHEET



## AVAUNT ®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

{{(METHOXYCARBONYL)[4-(TRIFLUOROMETHOXY)PHENYL]CARBAMOYL}INDENO[1,2-E][1,3,4]OXADIAZINE-4A-CARBOXYLATE  
Fatty acids, C8-10, Me esters  
Fatty acids, C6-10, Me esters

ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

## SECTION 16: Other information

### Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H372	: 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.
H413	: May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
UA OEL	: Ukraine OEL - Order on Approval of the Hygienic Regulations

# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

2017/164/EU / TWA : of Chemicals in the Air of the Working Zone  
UA OEL / MAC : Limit Value - eight hours  
: Maximum allowable concentration

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information :

#### Classification of the mixture:

Acute Tox. 4	H302
Skin Irrit. 2	H315
STOT RE 1	H372
Aquatic Chronic 2	H411

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method

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# SAFETY DATA SHEET



## AVAUNT®, EC (ABAHT, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2025	50000122	Date of first issue: 13.06.2025

---

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