

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Explicit® insecticide

#### Recommended use of the chemical and restrictions on use

Recommended use : Can be used as insecticide only.

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Company : FMC AG (Thailand) Limited (Head Office)

Address : 159/22 Serm-Mit Tower, Unit 1404,  
14th Floor, Sukhumvit 21 Road (Asoke)  
Khwaeng Klongtoey Nua, Khet Wattana,  
Bangkok 10110  
Thailand

Telephone : +662 700 9770

Telefax : +662 700 9777

E-mail address : SDS-Info@fmc.com

Emergency telephone : For leak, fire, spill or accident emergencies, call:  
1 703 / 741-5970 (CHEMTREC - International)  
001-800-13-203-9987 (CHEMTREC)

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

---

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 3

Specific target organ toxicity - : Category 2 (Central nervous system)  
single exposure

Specific target organ toxicity - : Category 1 (Blood, Nervous system, Heart)  
repeated exposure

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2

### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H302 Harmful if swallowed.  
H316 Causes mild skin irritation.  
H371 May cause damage to organs (Central nervous system).  
H372 Causes damage to organs (Blood, Nervous system, Heart) through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.  
P314 Get medical advice/ attention if you feel unwell.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P391 Collect spillage.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

# SAFETY DATA SHEET



## Explicit® insecticide

Version 1.0      Revision Date: 2022/12/15      SDS Number: 50002754      Date of last issue: -  
Date of first issue: 2022/12/15

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
indoxacarb (ISO)	173584-44-6	> 10 -< 20
Fatty acids, C8-10, Me esters	85566-26-3	>= 50 -< 70
calcium dodecylbenzenesulphonate	26264-06-2	>= 3 -< 10
2-ethylhexan-1-ol	104-76-7	>= 2.5 -< 10
Fatty acids, C6-10, Me esters	68937-83-7	>= 1 -< 10

### 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
Causes mild skin irritation.  
May cause damage to organs.  
Causes damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Water spray  
Regular foam  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapors.  
Fluorinated compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Hydrogen chloride  
Hydrogen fluoride  
Sulfur oxides  
Chlorine compounds
- Specific extinguishing methods : 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.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- 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.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

# SAFETY DATA SHEET



## Explicit® insecticide

Version 1.0	Revision Date: 2022/12/15	SDS Number: 50002754	Date of last issue: - Date of first issue: 2022/12/15
----------------	------------------------------	-------------------------	--

- |   |   |
|---|---|
| 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.   |
| Advice on safe handling                         | : Avoid formation of aerosol.<br>Do not breathe vapors/dust.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>To avoid spills during handling keep bottle on a metal tray.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage                     | : No smoking.<br>Keep in a well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Observe label precautions.<br>Electrical installations / working materials must comply with the technological safety standards.   |
| Further information on storage stability        | : No decomposition if stored and applied as directed.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

- |                             |   |
|-----------------------------|---|
| Respiratory protection      | : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.                               |
| Hand protection<br>Material | : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.   |
| Remarks                     | : The suitability for a specific workplace should be discussed with the producers of the protective gloves.                                   |
| Eye protection              | : Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection    | : Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.       |
| Hygiene measures            | : When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                          |

# SAFETY DATA SHEET

## Explicit® insecticide



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: amber, light yellow
Odor	: faint burn smell
Odor Threshold	: No data available
pH	: 6.6 (20 °C) Concentration: 10 g/l (1% solution in water)
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: 69 °C
Evaporation rate	: Not available for this mixture.
Flammability (liquids)	: Not highly flammable
Self-ignition	: 255 °C
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: Not available for this mixture.
Relative vapor density	: Not available for this mixture.
Relative density	: 0.9494 (20 °C)
Density	: 0.947 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	: 15 mg/l emulsifiable (25 °C)
Partition coefficient: n-octanol/water	: Not available for this mixture.
Autoignition temperature	: No data available

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

Viscosity		
Viscosity, dynamic	:	5.6 mPa.s ( 25 °C)
Viscosity, kinematic	:	4.68 mm <sup>2</sup> /s ( 20 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Molecular weight	:	Not applicable
Metal corrosion rate	:	Not corrosive to metals.
Particle size	:	Not applicable

### 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapors may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid	:	Avoid extreme temperatures. Avoid formation of aerosol. Heat, flames and sparks.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	Stable under recommended storage conditions.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed.

#### **Product:**

Acute oral toxicity	:	LD50 (Rat, female): 977 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes

**Explicit® insecticide**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

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

Acute oral toxicity : LD50 (Rat, female): 179 mg/kg  
Remarks: nervous system effects such as  
Hypoactivity  
Tremors  
Incoordination  
Abnormal tearing  
mortality  
Motor Activity effects

Acute inhalation toxicity : LC50 (Rat): 4.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402

**Fatty acids, C8-10, Me esters:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality  
Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality  
Based on data from similar materials

**calcium dodecylbenzenesulphonate:**

Acute oral toxicity : LD50 (Rat, male and female): 1,300 mg/kg  
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  
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



# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

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

### Fatty acids, C6-10, Me esters:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

### Skin corrosion/irritation

Causes mild skin irritation.

### Product:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

### Components:

#### indoxacarb (ISO):

Species : Rabbit  
Result : Mild skin irritant

Remarks : May cause skin irritation and/or dermatitis.

#### Fatty acids, C8-10, Me esters:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

#### 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

#### Fatty acids, C6-10, Me esters:

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

### Serious eye damage/eye irritation

Not classified based on available information.

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

### **Product:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

### **Components:**

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

Species	:	Rabbit
Result	:	slight irritation

Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.
---------	---	--

#### **Fatty acids, C8-10, Me esters:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	Regulation (EC) No. 440/2008, Annex, B.5

#### **calcium dodecylbenzenesulphonate:**

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

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

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

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

#### **Fatty acids, C6-10, Me esters:**

Species	:	Rabbit
Result	:	slight irritation
Method	:	OECD Test Guideline 405

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified based on available information.

### **Product:**

Test Type	:	Maximization Test
Species	:	Guinea pig

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.
GLP	:	yes

### **Components:**

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

Species	:	Guinea pig
Result	:	May cause sensitization by skin contact.

#### **Fatty acids, C8-10, Me esters:**

Test Type	:	Maximization Test
Routes of exposure	:	Intradermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.
Remarks	:	Based on data from similar materials

#### **calcium dodecylbenzenesulphonate:**

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

#### **Fatty acids, C6-10, Me esters:**

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	Not a skin sensitizer.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Product:**

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
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity -	:	Tests on bacterial or mammalian cell cultures did not show

## Explicit® insecticide



Assessment	mutagenic effects., Animal testing did not show any mutagenic effects.
------------	--

Genotoxicity in vitro	:	Test Type: Chromosome aberration test in vitro
		Test system: Human lymphocytes
		Metabolic activation: with and without metabolic activation
		Method: OECD Test Guideline 473
		Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

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.
-------------------------------------	--

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

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

### **Carcinogenicity**

Not classified based on available information.

#### **Product:**

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

#### **Components:**

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

Result : negative

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**

Not classified based on available information.

#### **Product:**

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

#### **Components:**

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

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility., No toxicity to reproduction  
Animal testing did not show any effects on fetal development.

##### **Fatty acids, C8-10, Me esters:**

Effects on fertility : Species: Rat

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

Application Route: Oral  
Dose: 0, 250, 500 and 1000 mg/kg bw  
General Toxicity Parent: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 422  
Remarks: Based on data from similar materials  
No significant adverse effects were reported

Effects on fetal development : Species: Rat  
Application Route: Oral  
Teratogenicity: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 422  
Remarks: Based on data from similar materials  
No significant adverse effects were reported

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

### **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 fetal 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 fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: negative

### **STOT-single exposure**

May cause damage to organs (Central nervous system).

### **Components:**

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

Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

### 2-ethylhexan-1-ol:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Causes damage to organs (Blood, Nervous system, Heart) through prolonged or repeated exposure.

### Components:

#### indoxacarb (ISO):

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

#### Fatty acids, C8-10, Me esters:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

### Components:

#### indoxacarb (ISO):

Species : Rat  
NOAEL : 0.6 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Target Organs : Blood, Nervous system

#### Fatty acids, C8-10, Me esters:

Species : Rat  
NOAEL : 1,000 mg/kg  
Application Route : Oral  
Dose : 0, 250, 500 and 1000 mg/kg bw/  
Method : OECD Test Guideline 422  
Remarks : Based on data from similar materials  
No significant adverse effects were reported

#### calcium dodecylbenzenesulphonate:

Species : Rat, male and female  
NOAEL : 85 mg/kg  
LOAEL : 145 mg/kg  
Application Route : Oral  
Exposure time : 9 Months  
Remarks : Based on data from similar materials

Species : Rat, male and female  
NOAEL : 100 mg/kg  
LOAEL : 200 mg/kg  
Application Route : Oral  
Exposure time : 28 Days  
Method : OECD Test Guideline 422

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

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

### 2-ethylhexan-1-ol:

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

### Aspiration toxicity

Not classified based on available information.

#### Product:

No aspiration toxicity classification

### Further information

#### Product:

Remarks : No data available

Remarks : No data available

#### Components:

### indoxacarb (ISO):

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

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### 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



# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.06 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.11 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.15 mg/l  
Exposure time: 90 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.09 mg/l  
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,250 mg/kg

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): 0.094 µg/bee  
End point: Acute contact toxicity

LD50 (Apis mellifera (bees)): 0.216 µg/bee  
End point: Acute oral toxicity

LD50 (Colinus virginianus (Bobwhite quail)): 152 mg/kg

LD50 (Colinus virginianus (Bobwhite quail)): 98 mg/kg

#### **Fatty acids, C8-10, Me esters:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.1 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (green algae): 1.35 mg/l  
Exposure time: 96 h  
Method: QSAR  
Remarks: Based on data from similar materials

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.65 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

NOEC (Daphnia magna (Water flea)): 1.18 mg/l  
Exposure time: 21 d  
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 soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 1,000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 1,356 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 223

### 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

### Fatty acids, C6-10, Me esters:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 95 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Gammarus fasciatus (freshwater shrimp)): 14.7 mg/l  
Remarks: Based on data from similar materials

### Persistence and degradability

#### Components:

#### indoxacarb (ISO):

Biodegradability : Result: Not readily biodegradable.

#### Fatty acids, C8-10, Me esters:

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 7.84 mg/l  
Result: Readily biodegradable.  
Biodegradation: 77 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

#### calcium dodecylbenzenesulphonate:

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

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

Biodegradability : Result: Readily biodegradable.

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

---

### Fatty acids, C6-10, Me esters:

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

#### indoxacarb (ISO):

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 77.3  
Exposure time: 21 d  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 0.57 (20 °C)

#### 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)

### Mobility in soil

#### Components:

#### indoxacarb (ISO):

Distribution among environmental compartments : Koc: 4483 ml/g, log Koc: 3.65  
Remarks: Low mobility in soil.

Stability in soil :

### Other adverse effects

#### Product:

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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

- UN number : UN 3082
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Indoxacarb)
- Class : 9
- Packing group : III
- Labels : 9

##### IATA-DGR

- UN/ID No. : UN 3082
- Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Indoxacarb)
- Class : 9
- Packing group : III
- Labels : Miscellaneous
- Packing instruction (cargo aircraft) : 964
- Packing instruction (passenger aircraft) : 964
- Environmentally hazardous : yes

##### IMDG-Code

- UN number : UN 3082
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Indoxacarb)
- Class : 9
- Packing group : III
- Labels : 9
- EmS Code : F-A, S-F
- Marine pollutant : yes

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

### 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.

## 15. REGULATORY INFORMATION

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

Hazardous Substance Act	:	Conditions of restriction for the following entries should be considered: indoxacarb (Number on list 614)
Emergency Decree on Controlling the Use of Volatile Substances	:	Not applicable

### The ingredients 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- {(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

## 16. OTHER INFORMATION

# SAFETY DATA SHEET



## Explicit® insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/12/15	50002754	Date of first issue: 2022/12/15

Revision Date : 2022/12/15

Date format : yyyy/mm/dd

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - 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; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to insure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

TH / EN