

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Carfentrazone-ethyl 40 DF

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	2025/08/15	50000493	Date of first issue: 2018/03/07

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Carfentrazone-ethyl 40 DF

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

Recommended use : Herbicide

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Company : FMC Corporation

Address : 2929 Walnut Street  
Philadelphia PA 19104  
USA

Telephone : +1 (215) 299-6000

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

Emergency telephone : For leak, fire, spill or accident emergencies, call:  
0086-0532 8388 9090 (National Registration Center for Chemicals)

Medical emergency:  
86 532 8388 9090

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	: powder
Color	: Off-white/tan
Odor	: Latex smell

Very toxic to aquatic life with long lasting effects.

#### GHS Classification

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

#### GHS label elements

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Hazard pictograms

:



Signal Word

: WARNING

Hazard Statements

: H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

:

**Prevention:**

P273 Avoid release to the environment.

**Response:**

P391 Collect spillage.

**Disposal:**

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

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Not classified based on available information.

### Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
carfentrazone-ethyl (ISO)	128639-02-1	$\geq 38$ - $\leq 42$
Silicon dioxide	112926-00-8	$\geq 30$ - $< 50$
Bentonite	1302-78-9	$\geq 1$ - $< 10$
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	$\geq 1$ - $< 2.5$

## 4. FIRST AID MEASURES

General advice

: Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled

: Remove to fresh air.

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- 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 : If on clothes, remove clothes.  
If on skin, rinse well with water.  
Wash off with soap and plenty of water.  
Get medical attention if irritation develops and persists.
- 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 : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Do not induce vomiting without medical advice.
- Most important symptoms and effects, both acute and delayed : None known.
- 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 personal protective equipment.
- Notes to physician : Treat symptomatically.  
Immediate medical attention is required in case of ingestion.

### 5. FIRE-FIGHTING MEASURES

- 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
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Nitrogen oxides (NO<sub>x</sub>)

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Carbon oxides  
Chlorine compounds  
Fluorine compounds

Fire may produce irritating, corrosive and/or toxic gases.  
Nitrogen oxides (NOx)  
Carbon oxides  
Fluorine compounds  
Hydrogen cyanide  
Hydrogen chloride  
Chlorinated compounds  
Sulfur oxides

- 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.  
Standard procedure for chemical fires.  
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.
- Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Do not touch or walk through the spilled material.  
If it can be safely done, stop the leak.  
Ensure adequate ventilation.  
Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.
- 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 : Keep in suitable, closed containers for disposal.
- Prevention of secondary hazards : 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.

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### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Avoid formation of respirable particles.

Avoidance of contact : Avoid strong acids, bases, and oxidizers.

#### Storage

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
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.  
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. 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.

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon dioxide	112926-00-8	PC-TWA (Total dust)	5 mg/m3	CN OEL
carfentrazone-ethyl (ISO)	128639-02-1	TWA (Inhalable particulate matter)	1 mg/m3	ACGIH
Bentonite	1302-78-9	PC-TWA (Total dust)	6 mg/m3	CN OEL

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### Personal protective equipment

Respiratory protection	: In the case of dust or aerosol formation use respirator with an approved filter.  Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type	: Particulates type
Eye/face protection	: Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	: Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hand protection 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.
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.
Hygiene measures	: General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Form	: powder
Color	: Off-white/tan
Odor	: Latex smell

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Odor Threshold	:	not determined
pH	:	8.63 (23.9 °C) Concentration: 1 %
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	not determined
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not highly flammable
Self-ignition	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	Not available for this mixture.
Relative vapor density	:	not determined
Density	:	0.716 g/cm <sup>3</sup> Pour density  0.735 g/cm <sup>3</sup> Tap density
Solubility(ies)		
Water solubility	:	dispersible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not available for this mixture.
Autoignition temperature	:	No data available
Decomposition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

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Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing
Particle size	: No data available

### 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	: No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	: Avoid extreme temperatures. Avoid dust formation. Heat, flames and sparks. Protect from frost, heat and sunlight. Heating of the product will produce harmful and irritant vapours.
Incompatible materials	: Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	: Stable under recommended storage conditions.  No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

Routes of exposure	: Inhalation
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#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	: LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	: LC50 (Rat, male and female): > 5.18 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity Remarks: no mortality Highest attainable concentration.



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

### Components:

#### **carfentrazone-ethyl (ISO):**

Acute oral toxicity : LD50 (Rat, female): 5,143 mg/kg  
Method: US EPA Test Guideline OPP 81-1  
Symptoms: Tremors  
GLP: yes

LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: EPA OPP 81 - 3  
Symptoms: Tremors, chromodacryorrhea, nasal discharge  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 4,000 mg/kg  
Method: US EPA Test Guideline OPP 81-2  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

#### **Silicon dioxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC0 (Rat, male and female): > 0.14 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials  
no mortality

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: Based on data from similar materials

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### Bentonite:

Acute oral toxicity	:	LD50 (Mouse): > 5,000 mg/kg LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	LC50 (Rat): > 5.27 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 436

### D-Glucopyranose, oligomeric, decyl octyl glycosides:

Acute oral toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 423
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402

### Skin corrosion/irritation

Not classified based on available information.

### Product:

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

### Components:

#### carfentrazone-ethyl (ISO):

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	US EPA Test Guideline OPP 81-5
Result	:	slight irritation
GLP	:	yes

### Silicon dioxide:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Based on data from similar materials

### Bentonite:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

### D-Glucopyranose, oligomeric, decyl octyl glycosides:

Species	:	Rabbit
Method	:	OECD Test Guideline 404

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Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Species	: Rabbit
Assessment	: No eye irritation
Method	: OECD Test Guideline 405
Remarks	: Minimal effects that do not meet the threshold for classification.

#### Components:

##### **carfentrazone-ethyl (ISO):**

Species	: Rabbit
Result	: slight irritation
Assessment	: Not classified as irritant
Method	: EPA OPP 81-4
GLP	: yes

##### **Silicon dioxide:**

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405
Remarks	: Based on data from similar materials

##### **Bentonite:**

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

##### **D-Glucopyranose, oligomeric, decyl octyl glycosides:**

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

### Respiratory or skin sensitization

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### Product:

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429

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Result : Does not cause skin sensitization.

### Components:

#### **carfentrazone-ethyl (ISO):**

Routes of exposure : Skin contact  
Species : Guinea pig  
Method : US EPA Test Guideline OPP 81-6  
Result : Does not cause skin sensitization.  
GLP : yes

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.  
GLP : yes

#### **Bentonite:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.

#### **D-Glucopyranose, oligomeric, decyl octyl glycosides:**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.  
Remarks : Based on data from similar materials

### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **carfentrazone-ethyl (ISO):**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: U.S. EPA 84-2

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Result: negative  
GLP: yes

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Result: negative  
GLP: yes

Test Type: unscheduled DNA synthesis assay  
Species: Rat (male)  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : No genotoxic potential.

### Silicon dioxide:

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 : Species: Rat (male)  
Application Route: Inhalation  
Result: negative  
Remarks: Based on data from similar materials

### Bentonite:

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

Method: OECD Test Guideline 473  
Result: negative

Method: OECD Test Guideline 476  
Result: negative

### D-Glucopyranose, oligomeric, decyl octyl glycosides:

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Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials  Test Type: gene mutation test Method: OECD Test Guideline 476 Result: negative  Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse (male) Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

Not classified based on available information.

#### Components:

##### **carfentrazone-ethyl (ISO):**

Species	: Rat, female
Application Route	: Ingestion
Exposure time	: 2 Years
NOAEL	: 3 mg/kg bw/day
LOAEL	: 12 mg/kg bw/day
Method	: U.S. EPA 83-5
Result	: no increase in tumors observed
Target Organs	: Liver
GLP	: yes

Species	: Mouse, female
Application Route	: Ingestion
Exposure time	: 80 weeks
NOAEL	: 10 mg/kg bw/day
LOAEL	: 110 mg/kg bw/day
Method	: U.S. EPA 83-5
Result	: no increase in tumors observed
Target Organs	: Liver
GLP	: yes

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

Species	:	Rat
Application Route	:	Oral
Exposure time	:	103 weeks
Method	:	OECD Test Guideline 453
Result	:	negative
Remarks	:	Based on data from similar materials

### Bentonite:

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

Not classified based on available information.

### Components:

#### carfentrazone-ethyl (ISO):

Effects on fertility	:	Test Type: Multi-generation study Species: Rat, male and female Application Route: Ingestion Fertility: NOEL: 4,000 ppm Result: negative
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat, female Application Route: Oral General Toxicity Maternal: NOEL: 100 mg/kg bw/day Embryo-fetal toxicity.: NOEL: 600 mg/kg bw/day Result: negative  Test Type: Embryo-fetal development Species: Rabbit, female Application Route: Oral General Toxicity Maternal: NOEL: 150 mg/kg bw/day Embryo-fetal toxicity.: NOEL: > 300 mg/kg bw/day Result: negative
Reproductive toxicity - Assessment	:	Animal testing showed no reproductive toxicity.

### Silicon dioxide:

Effects on fertility	:	Species: Rat General Toxicity Parent: NOAEL: 1.5 mg/kg bw/day Fertility: NOAEL: > 6.9 mg/kg body weight
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 2 mg/kg bw/day Embryo-fetal toxicity.: NOAEL: 2 mg/kg bw/day

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Symptoms: Reduced fetal weight., Reduced number of viable fetuses.

Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 500 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 500 mg/kg bw/day  
Symptoms: Reduced fetal weight., fused or incompletely ossified sternebrae

### Bentonite:

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

### D-Glucopyranose, oligomeric, decyl octyl glycosides:

Effects on fertility : Test Type: one-generation reproductive toxicity  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 100, 300, 1000 mg/kg bw  
General Toxicity Parent: NOAEL: 1,000 mg/kg bw/day  
Method: OECD Test Guideline 421  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rat, females  
Application Route: Oral  
Dose: 0, 100, 300, 1000 mg/kg bw  
General Toxicity Maternal: NOAEL: 1,000 mg/kg bw/day  
Developmental Toxicity: NOAEL: 1,000 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

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

### STOT-single exposure

Not classified based on available information.

### Components:

#### carfentrazone-ethyl (ISO):

Remarks : No significant adverse effects were reported

### Bentonite:

Remarks : No significant adverse effects were reported

### STOT-repeated exposure

Not classified based on available information.



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### Components:

#### **carfentrazone-ethyl (ISO):**

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

#### **Bentonite:**

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

#### **D-Glucopyranose, oligomeric, decyl octyl glycosides:**

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

### **Repeated dose toxicity**

#### Components:

##### **carfentrazone-ethyl (ISO):**

Species : Mouse, male  
NOAEL : 143 mg/kg  
LOAEL : 571 mg/kg  
Application Route : Oral  
Exposure time : 90 days  
Method : EPA 82-1  
GLP : yes  
Target Organs : Blood, Liver

Species : Dog, male and female  
NOEL : 150 mg/kg  
LOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 90 days  
Target Organs : Blood

Species : Dog, male and female  
NOEL : 50 mg/kg  
NOAEL : 150 mg/kg  
LOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 12 months  
GLP : yes  
Target Organs : Blood

Species : Rat, male  
NOAEL : 58 mg/kg  
Exposure time : 90 d  
Method : EPA 82-1  
GLP : yes

#### **Silicon dioxide:**

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Species	: Rat, male and female
NOAEL	: 2,500 mg/kg
Application Route	: Oral
Exposure time	: 13 weeks
Method	: OECD Test Guideline 408
Remarks	: Based on data from similar materials

Species	: Rat, male and female
NOAEL	: 1.3 - 10 mg/l
LOAEL	: 5.9 mg/l
Application Route	: Inhalation
Exposure time	: 13 weeks
Method	: OECD Test Guideline 413
Remarks	: Based on data from similar materials

### D-Glucopyranose, oligomeric, decyl octyl glycosides:

Species	: Rat, male and female
NOAEL	: 1000 mg/kg bw/day
Application Route	: Oral
Exposure time	: 90d
Dose	: 0, 250, 500, 1000 mg/kg bw
Remarks	: Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

#### Product:

The mixture does not have properties associated with aspiration hazard potential.

#### Components:

##### carfentrazone-ethyl (ISO):

The substance does not have properties associated with aspiration hazard potential.

### Neurological effects

#### Components:

##### carfentrazone-ethyl (ISO):

No neurotoxicity observed in animal studies.

### Further information

#### Product:

Remarks	: No data available
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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

Toxicity to algae/aquatic plants	: NOEC (algae): 0.0063 mg/l Exposure time: 72 h  ErC50 (algae): 0.067 mg/l Exposure time: 72 h  NOEC (Lemna gibba (gibbous duckweed)): 0.00158 µg/l Exposure time: 7 d Method: OECD Test Guideline 221  EC50 (Lemna gibba (gibbous duckweed)): 0.030 µg/l Exposure time: 7 d Method: OECD Test Guideline 221
Toxicity to soil dwelling organisms	: NOEC (Eisenia fetida (earthworms)): 45.9 mg/kg Method: OECD Test Guideline 222  LC50 (Eisenia fetida (earthworms)): > 45.9 mg/kg Method: OECD Test Guideline 222
Toxicity to terrestrial organisms	: LD50 (Apis mellifera (bees)): > 200 µg/bee Exposure time: 48 h End point: Acute oral toxicity Method: OECD Test Guideline 213

##### Components:

##### **carfentrazone-ethyl (ISO):**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 2.55 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203  LC50 (Menidia beryllina (Silverside)): 1.14 mg/l Exposure time: 96 h Test Type: flow-through test  LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l Exposure time: 96 h Test Type: flow-through test Method: EPA OPP 72-1  LC50 (Lepomis macrochirus (Bluegill sunfish)): 2 mg/l Exposure time: 96 h Test Type: flow-through test
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Toxicity to daphnia and other	: EC50 (Daphnia magna (Water flea)): > 9.8 mg/l
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aquatic invertebrates	End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility.
Toxicity to algae/aquatic plants	: EC50 (Selenastrum capricornutum (green algae)): 0.0133 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes  NOEC (Selenastrum capricornutum (green algae)): 0.00933 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes  EbC50 (Selenastrum capricornutum (green algae)): 16 µg/l Exposure time: 120 h  EC50 (Navicula pelliculosa (Diatom)): 12 µg/l Exposure time: 72 h Test Type: static test  EC50 (Skeletonema costatum (Diatom)): 15 µg/l Exposure time: 72 h GLP: yes
M-Factor (Acute aquatic toxicity)	: 10
Toxicity to fish (Chronic toxicity)	: NOEC (Oncorhynchus mykiss (rainbow trout)): 22 µg/l Exposure time: 89 d Test Type: Early Life-Stage Method: OECD Test Guideline 210 GLP: yes  NOEC (Oncorhynchus mykiss (rainbow trout)): 0.118 mg/l Exposure time: 102 d Test Type: flow-through test Method: US EPA Test Guideline OPP 72-4
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0.309 mg/l End point: Growth Exposure time: 21 d Method: OECD Test Guideline 202  NOEC (Daphnia magna (Water flea)): 0.316 mg/l End point: Growth Exposure time: 21 d Method: OECD Test Guideline 202

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NOEC (Daphnia): 35 mg/l  
End point: reproduction  
Exposure time: 21 d  
Method: US EPA Test Guideline OPPTS 850.1300  
Remarks: Information given is based on data obtained from similar product.

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to microorganisms : NOEC (activated sludge): 1,000 mg/l  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): 820 mg/kg

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 : LD50 (Anas platyrhynchos (Mallard duck)): > 5,620 ppm  
End point: Acute oral toxicity  
Remarks: Dietary

LC50 (Colinus virginianus (Bobwhite quail)): > 5,620 ppm  
End point: Acute oral toxicity  
Remarks: Dietary

LD50 (Colinus virginianus (Bobwhite quail)): > 2,000 mg/kg  
End point: Acute oral toxicity  
Method: EPA OPP 71-1

LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg  
End point: Acute oral toxicity  
Method: EPA OPP 71-1

NOEL (Colinus virginianus (Bobwhite quail)): 1000 ppm  
End point: Reproduction Test

LD50 (Apis mellifera (bees)): > 200 µg/bee  
End point: Acute oral toxicity

LD50 (Apis mellifera (bees)): > 200 µg/bee  
End point: Acute contact toxicity

### Ecotoxicology Assessment

Toxicity Data on Soil : Harmful to the soil environment.

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### Silicon dioxide:

Toxicity to fish	: LC50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	: NOELR (Desmodesmus subspicatus (green algae)): 10,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials

### Ecotoxicology Assessment

Acute aquatic toxicity	: This product has no known ecotoxicological effects.
Chronic aquatic toxicity	: This product has no known ecotoxicological effects.

### Bentonite:

Toxicity to fish	: LC50 (Salmo gairdneri): 8,000 mg/l Exposure time: 96 h  LC50 (Oncorhynchus mykiss (rainbow trout)): 16,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (algae): > 100 mg/l Exposure time: 72 h

### D-Glucopyranose, oligomeric, decyl octyl glycosides:

Toxicity to fish	: LC0 (Danio rerio (zebra fish)): 59.3 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): 21 mg/l Exposure time: 72 h Test Type: static test
Toxicity to fish (Chronic tox-	: NOEC (Danio rerio (zebra fish)): 1.8 mg/l

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icity)	Exposure time: 28 d Method: OECD Test Guideline 204 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: LOEC (Daphnia magna (Water flea)): 2 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to microorganisms	: EC50 (Pseudomonas putida): > 560 mg/l Exposure time: 6 h Test Type: Growth inhibition
Toxicity to soil dwelling organisms	: LC0 (Eisenia fetida (earthworms)): >= 654 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207 Remarks: Based on data from similar materials

### Persistence and degradability

#### Components:

##### **carfentrazone-ethyl (ISO):**

Biodegradability	: Result: Not readily biodegradable. Biodegradation: 3.9 % Exposure time: 28 d Method: OECD Test Guideline 301B
Stability in water	: Degradation half life: 3.6 h pH: 9  Degradation half life: 8.6 d pH: 7
Photodegradation	:

##### **Silicon dioxide:**

Biodegradability	: Result: Not biodegradable Remarks: Based on data from similar materials
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##### **Bentonite:**

Biodegradability	: Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.
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##### **D-Glucopyranose, oligomeric, decyl octyl glycosides:**

Biodegradability	: Inoculum: activated sludge, non-adapted Result: Readily biodegradable. Method: OECD Test Guideline 301E
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### Bioaccumulative potential

#### Product:

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

#### Components:

##### **carfentrazone-ethyl (ISO):**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 176  
Exposure time: 28 d  
Method: OECD Test Guideline 305E  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3.7 (20 °C)

##### **Silicon dioxide:**

Bioaccumulation : Bioconcentration factor (BCF): 3.16  
Remarks: Based on data from similar materials

##### **D-Glucopyranose, oligomeric, decyl octyl glycosides:**

Partition coefficient: n-octanol/water : log Pow: 1.72 (40 °C)  
pH: 6.5  
Remarks: Based on data from similar materials

### Mobility in soil

#### Product:

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

#### Components:

##### **carfentrazone-ethyl (ISO):**

Distribution among environmental compartments : Remarks: Mobile in soils

### Other adverse effects

#### Product:

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.



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### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- |                        |                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues    | : The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company.                                                                |
| Contaminated packaging | : Empty remaining contents.<br>Triple rinse containers.<br>Do not re-use empty containers.<br>Packaging that is not properly emptied must be disposed of as the unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal. |

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

- |                           |                                                                               |
|---------------------------|-------------------------------------------------------------------------------|
| UN number                 | : UN 3077                                                                     |
| Proper shipping name      | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Carfentrazone-ethyl) |
| Class                     | : 9                                                                           |
| Subsidiary risk           | : ENVIRONM.                                                                   |
| Packing group             | : III                                                                         |
| Labels                    | : 9 (ENVIRONM.)                                                               |
| Environmentally hazardous | : yes                                                                         |

##### IATA-DGR

- |                                          |                                                                               |
|------------------------------------------|-------------------------------------------------------------------------------|
| UN/ID No.                                | : UN 3077                                                                     |
| Proper shipping name                     | : Environmentally hazardous substance, solid, n.o.s.<br>(Carfentrazone-ethyl) |
| Class                                    | : 9                                                                           |
| Packing group                            | : III                                                                         |
| Labels                                   | : Miscellaneous                                                               |
| Packing instruction (cargo aircraft)     | : 956                                                                         |
| Packing instruction (passenger aircraft) | : 956                                                                         |
| Environmentally hazardous                | : yes                                                                         |

##### IMDG-Code

- |                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| UN number            | : UN 3077                                                                     |
| Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Carfentrazone-ethyl) |
| Class                | : 9                                                                           |
| Packing group        | : III                                                                         |

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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.

### Domestic regulation

#### GB 6944/12268

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

### 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

### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

#### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : applicable

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218) : Not listed

Hazardous Chemicals for Priority Management under SAWS : Not listed

#### Regulations on Occupational Labor Protection in the at workplaces where Toxic Substances Are Used

Catalogue of Highly Toxic Chemicals : Not listed

#### Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import and Export : Not listed

### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

### 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.

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AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  ETHYL (RS)-2-CHLORO-3-{2-CHLORO-5-[4-(DIFLUOROMETHYL)-4,5-DIHYDRO-3-METHYL-5-OXO-1H-1,2,4-TRIAZOL-1-YL]-4-FLUOROPHENYL}PROPIONATE
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

### 16. OTHER INFORMATION

Revision Date	: 2025/08/15
Date format	: yyyy/mm/dd

#### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
CN OEL	: Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

ACGIH / TWA	: 8-hour, time-weighted average
CN OEL / PC-TWA	: Permissible concentration - time weighted average

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 Chemi-

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cal 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

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