

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

This Safety Data Sheet adheres to the standards and regulatory requirements of USA and may not meet the regulatory requirements in other countries.

### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** AIM® EC HERBICIDE

#### Other means of identification

**Product code** 50001765

#### 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

##### Manufacturer

FMC Corporation  
2929 WALNUT ST  
PHILADELPHIA PA 19104  
USA  
+1 (215) 299-6000 (Corporate)  
SDS-Info@fmc.com, +1-(800)-346-0833 (FMC Cust. Service)

##### Supplier Address

FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104  
USA

##### Emergency telephone

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:  
U.S.A. & Canada: +1 800 / 331-3148  
All other countries: +1 651 / 632-6793 (Collect)

---

### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

#### **Hazards for the product as supplied**

Flammable liquids : Category 4

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

Skin irritation : Category 2  
Eye irritation : Category 2A  
Carcinogenicity : Category 2  
Reproductive toxicity : Category 2  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)  
Aspiration hazard : Category 1

### Other hazards

None known.

### GHS label elements

Hazard pictograms :

Signal Word : DANGER

Hazard Statements : H227 Combustible liquid.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
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.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5*	>= 70 - < 90	-
2-methylnaphthalene	91-57-6*	>= 20 - < 30	-
carfentrazone-ethyl (ISO)	128639-02-1*	>= 20 - < 30	-
1-methylnaphthalene	90-12-0*	>= 5 - < 10	-
butan-1-ol	71-36-3*	>= 1 - < 5	-
naphthalene	91-20-3*	>= 0.1 - < 1	-
4-hydroxy-4-methylpentan-2-one	123-42-2*	>= 0.1 - < 1	-

\* Indicates that the identifier is a CAS No.

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

- In case of skin contact : Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.
- Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
Swallowing or inhaling may result in sudden shortness of breath, coughing, nausea and or abdominal pain.  
Skin contact may result in itching and redness. Eye contact may result in itching, watery eyes, light sensitivity, pain, and/or blurred vision.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- Notes to physician : Treat symptomatically.
- 

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.
- 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.  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Chlorine compounds  
Fluorine compounds  
Hydrogen cyanide  
Hydrogen chloride
- Carbon oxides  
Fire may produce irritating, corrosive and/or toxic gases.  
Nitrogen oxides (NO<sub>x</sub>)  
Fluorine compounds  
Hydrogen cyanide  
Hydrogen chloride  
Chlorinated compounds
- 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.
-

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

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

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and 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 labeled containers.  
Keep in suitable, closed containers for disposal.
- 

### SECTION 7. HANDLING AND STORAGE

- 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 : Keep away from fire, sparks and heated surfaces.  
Avoid formation of aerosol.  
Do not breathe vapors/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.
- Conditions for safe storage : No smoking.
-

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version  
1.2

Revision Date:  
03/19/2026

SDS Number:  
50001765

Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

Keep in a well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
carfentrazone-ethyl (ISO)	128639-02-1	TWA (Inhalable particulate matter)	1 mg/m <sup>3</sup>	ACGIH
butan-1-ol	71-36-3	TWA	20 ppm	ACGIH
		C	50 ppm 150 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 300 mg/m <sup>3</sup>	OSHA Z-1
		C	50 ppm 150 mg/m <sup>3</sup>	OSHA P0
naphthalene	91-20-3	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m <sup>3</sup>	NIOSH REL
		ST	15 ppm 75 mg/m <sup>3</sup>	NIOSH REL
		TWA	10 ppm 50 mg/m <sup>3</sup>	OSHA Z-1
		STEL	15 ppm 75 mg/m <sup>3</sup>	OSHA P0
		TWA	10 ppm 50 mg/m <sup>3</sup>	OSHA P0
4-hydroxy-4-methylpentan-2-one	123-42-2	TWA	50 ppm	ACGIH
		TWA	50 ppm 240 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 240 mg/m <sup>3</sup>	OSHA Z-1
		TWA	50 ppm 240 mg/m <sup>3</sup>	OSHA P0

#### Personal protective equipment

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.
Hand protection	:	
Material	:	Protective gloves
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 Tightly fitting safety goggles
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Protective measures	:	Plan first aid action before beginning work with this product.
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.

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	brown, orange
Odor	:	Aromatic
Odor Threshold	:	No data available
pH	:	5.3 Concentration: 10 g/l
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	168.1 °F / 75.6 °C  Method: closed cup
Evaporation rate	:	No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	9 lb/gal 0.1078 g/cm <sup>3</sup>
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Molecular weight	:	Not applicable

---

### SECTION 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 formation of aerosol. Avoid extreme temperatures. Heat, flames and sparks.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

Incompatible materials : Avoid strong acids, bases, and oxidizers.

Hazardous decomposition products : No hazardous decomposition products are known.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Product:

Acute oral toxicity : LD50 (Rat): 4,077 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6.31 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 4,000 mg/kg

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

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 : LC50 (Rat): > 4.688 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

##### **2-methylnaphthalene:**

Acute oral toxicity : LD50 (Rat): 1,630 mg/kg

##### **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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

- 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
- 1-methylnaphthalene:**  
Acute oral toxicity : LD50 (Rat): 1,840 mg/kg
- butan-1-ol:**  
Acute oral toxicity : LD50 (Rat): 2.292 mg/kg  
Acute toxicity estimate: 1,000 mg/kg  
Method: Expert judgment
- Acute inhalation toxicity : LC0 (Rat): > 17.76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rabbit): 3,430 mg/kg
- naphthalene:**  
Acute oral toxicity : LD50 (Mouse, female): 710 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC0 (Rat, male and female): > 0.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 16,000 mg/kg  
Method: OECD Test Guideline 402

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

### 4-hydroxy-4-methylpentan-2-one:

- Acute oral toxicity : LD50 Oral (Rat, male and female): 3,002 mg/kg  
Method: OECD Test Guideline 401  
Symptoms: Lethargy, ataxia, Coma
- Acute inhalation toxicity : LC0 (Rat, male and female): >= 7.6 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Remarks: no mortality
- Acute dermal toxicity : LD0 (Rat, male and female): > 1,875 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

Causes skin irritation.

#### Product:

- Species : Rabbit  
Assessment : Not classified as irritant  
Result : slight irritation

#### Components:

##### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

- Species : Rabbit  
Assessment : Repeated exposure may cause skin dryness or cracking.  
Result : No skin irritation  
Remarks : Minimal effects that do not meet the threshold for classification.  
Based on data from similar materials

##### 2-methylnaphthalene:

- Result : Skin irritation

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

- Species : Rabbit  
Method : US EPA Test Guideline OPP 81-5  
Result : No skin irritation  
GLP : yes  
Remarks : slight irritation  
Minimal effects that do not meet the threshold for classification.

##### 1-methylnaphthalene:

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

##### butan-1-ol:

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

Species : Rabbit  
Result : Skin irritation

### **naphthalene:**

Species : Rabbit  
Result : No skin irritation

### **4-hydroxy-4-methylpentan-2-one:**

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

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Product:**

Species : Rabbit  
Result : slight irritation  
Assessment : Not classified as irritant

### **Components:**

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Species : Rabbit  
Assessment : No eye irritation  
Remarks : Minimal effects that do not meet the threshold for classification.  
Based on data from similar materials

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

Species : Rabbit  
Result : No eye irritation  
Method : EPA OPP 81-4  
GLP : yes  
Remarks : slight irritation  
Minimal effects that do not meet the threshold for classification.

#### **1-methylnaphthalene:**

Species : Rabbit  
Result : No eye irritation

#### **butan-1-ol:**

Species : Rabbit  
Result : Irreversible effects on the eye

#### **naphthalene:**

Species : Rabbit

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

Result : No eye irritation

### 4-hydroxy-4-methylpentan-2-one:

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

### Respiratory or skin sensitization

#### Skin sensitization

Based on available data, the classification criteria are not met.

#### Respiratory sensitization

Based on available data, the classification criteria are not met.

#### Product:

Assessment : Not a skin sensitizer.  
Result : Does not cause skin sensitization.

#### Components:

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

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

#### 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

#### butan-1-ol:

Result : Not a skin sensitizer.

#### naphthalene:

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

### 4-hydroxy-4-methylpentan-2-one:

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Components:

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

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: Bone marrow chromosome aberration.  
Species: Rat  
Application Route: inhalation (vapor)  
Result: negative

#### 2-methylnaphthalene:

Genotoxicity in vitro : Test Type: sister chromatid exchange assay  
Test system: Human lymphocytes  
Result: negative

Test Type: Ames test  
Result: negative

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

#### 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  
Result: negative  
GLP: yes

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

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.

### **1-methylnaphthalene:**

Genotoxicity in vitro : Test Type: sister chromatid exchange assay  
Test system: Human lymphocytes  
Result: negative

Test Type: Ames test  
Result: negative

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

### **butan-1-ol:**

Genotoxicity in vitro : Test Type: gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### **naphthalene:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

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

### 4-hydroxy-4-methylpentan-2-one:

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

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

Test Type: In vitro mammalian cell gene mutation test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

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

### Carcinogenicity

Suspected of causing cancer.

#### Product:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Species : Rat, male and female  
Application Route : inhalation (vapor)  
Exposure time : 12 month(s)  
NOAEC : 1.8 mg/l  
Result : negative  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **2-methylnaphthalene:**

Species : Mouse, male  
Application Route : Oral  
Exposure time : 81 w  
Dose : 750, 1500 ppm  
LOAEL : 750 ppm

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

Result : equivocal  
Symptoms : Tumor  
Target Organs : Lungs  
Remarks : Based on data from similar materials

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

### **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.

### **1-methylnaphthalene:**

Species : Mouse, male  
Application Route : Oral  
Exposure time : 81 w  
Dose : 750, 1500 ppm  
LOAEL : 750 ppm  
Result : equivocal  
Symptoms : Tumor  
Target Organs : Lungs

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

### **naphthalene:**

Species : Rat  
Application Route : Inhalation  
Exposure time : 2 Years  
Result : positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

### 4-hydroxy-4-methylpentan-2-one:

- Effects on fertility : Test Type: one-generation reproductive toxicity  
Species: Rat, male and female  
Application Route: Oral  
Dose: 30, 100, 300, 1000mg/kg/bw  
Duration of Single Treatment: 45 d  
General Toxicity Parent: LOAEL: 300 mg/kg bw/day  
General Toxicity F1: NOAEL: 300 mg/kg bw/day  
Method: OECD Test Guideline 422
- Effects on fetal development : Species: Rat  
Application Route: Oral  
Dose: 100, 300, 1000mg/kg/day  
Duration of Single Treatment: 21 d  
General Toxicity Maternal: NOAEL: > 1,000 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: > 1,000 mg/kg bw/day  
Method: OECD Test Guideline 414
- Species: Rabbit  
Application Route: Oral  
Dose: 0, 100, 300, 800mg/kg/bw/day  
Duration of Single Treatment: 29 d  
General Toxicity Maternal: LOAEL: 800 mg/kg bw/day  
Embryo-fetal toxicity.: LOAEL: 300 mg/kg bw/day  
Method: OECD Test Guideline 414
- Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

### STOT-single exposure

May cause respiratory irritation.  
May cause drowsiness or dizziness.

### Components:

#### 2-methylnaphthalene:

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

#### carfentrazone-ethyl (ISO):

Remarks : No significant adverse effects were reported

#### 1-methylnaphthalene:

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

#### butan-1-ol:

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

### 4-hydroxy-4-methylpentan-2-one:

Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Components:

#### carfentrazone-ethyl (ISO):

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

### Repeated dose toxicity

### Components:

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rat, male and female  
NOAEC : 0.9 - 1.8 mg/l  
Application Route : inhalation (vapor)  
Exposure time : 12 Months

#### 2-methylnaphthalene:

Species : Mouse, female  
LOAEL : 50.3 mg/kg  
Application Route : Oral  
Exposure time : 81 w  
Dose : 0, 50.3, 107.6 mg/kg-d  
Symptoms : pulmonary effects, immune system effects

Species : Mouse  
Application Route : Dermal  
Exposure time : 30 w  
Number of exposures : 2/w  
Dose : 119 mg/kg-application  
Symptoms : pulmonary effects  
Remarks : Based on data from similar materials

#### 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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

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

### 1-methylnaphthalene:

Species : Mouse, female  
LOAEL : 50.3 mg/kg  
Application Route : Oral  
Exposure time : 81 w  
Dose : 0, 50.3, 107.6 mg/kg-d  
Symptoms : pulmonary effects, immune system effects  
Remarks : Based on data from similar materials

Species : Mouse  
Application Route : Dermal  
Exposure time : 30 w  
Number of exposures : 2/w  
Dose : 119 mg/kg-application  
Symptoms : pulmonary effects  
Remarks : Based on data from similar materials

### butan-1-ol:

Species : Rat  
NOAEL : 1,500 mg/m<sup>3</sup>  
Application Route : Inhalation

### 4-hydroxy-4-methylpentan-2-one:

Species : Rat, male and female  
NOAEL : 600 mg/kg bw/day  
Application Route : Oral  
Exposure time : 13 weeks  
Dose : 0, 25, 150, 600mg/kg bw/day  
Method : OECD Test Guideline 408

Species : Rat, male and female  
LOAEL : 300 mg/kg bw/day

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

Application Route : Oral  
Exposure time : 45 d  
Dose : 30, 100, 300, 1000mg/kgbw  
Method : OECD Test Guideline 422

Species : Rat, male and female  
NOAEL : 1000 ppm  
Application Route : inhalation (vapor)  
Exposure time : 6 weeks  
Dose : 50, 225, 1000 ppm  
Method : OECD Test Guideline 412

### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### **Product:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Components:**

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

May be fatal if swallowed and enters airways.

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

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

##### **1-methylnaphthalene:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

### Experience with human exposure

#### **Components:**

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Skin contact : Symptoms: Repeated exposure may cause skin dryness or cracking.

##### **2-methylnaphthalene:**

Skin contact : Target Organs: Skin  
Symptoms: Irritation

##### **1-methylnaphthalene:**

Skin contact : Target Organs: Skin  
Symptoms: Irritation

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

### Neurological effects

#### Components:

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

No neurotoxicity observed in animal studies.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Remarks : Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 1.4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l Exposure time: 24 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EL50 (Daphnia magna (Water flea)): 0.89 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms	:	LL50 (Tetrahymena pyriformis): 677.9 mg/l Exposure time: 72 h Test Type: Growth inhibition

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

### 2-methylnaphthalene:

Toxicity to fish : LC50 (Fish): 2 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 1.49 mg/l  
End point: Immobilization  
Test Type: static test

### 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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 9.8 mg/l  
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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

- EC50 (Skeletonema costatum (Diatom)): 15 µg/l  
Exposure time: 72 h  
GLP: yes
- 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
- 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.
- 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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

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.

#### 1-methylnaphthalene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.42 mg/l  
End point: Immobilization  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 12 mg/l  
Exposure time: 14 d  
Test Type: static test

#### butan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,376 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,328 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 225 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): 225 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 4.1 mg/l  
Exposure time: 21 d

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 225 mg/l  
Exposure time: 4 d

EC50 (Natural microorganism): 4,390 mg/l  
Exposure time: 17 h

### naphthalene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.16 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 0.4 - 0.5 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus kisutch (coho salmon)): 0.37 mg/l  
Exposure time: 40 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia pulex (Water flea)): 0.59 mg/l  
Exposure time: 125 d

Toxicity to microorganisms : IC50 (Bacteria): 29 mg/l  
Exposure time: 24 h

### 4-hydroxy-4-methylpentan-2-one:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 1,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): >= 1,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other : LOEC (Daphnia magna (Water flea)): > 100 mg/l

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

aquatic invertebrates (Chronic toxicity) : Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 58.6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

##### **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 :

##### **1-methylnaphthalene:**

Biodegradability : Result: Not readily biodegradable.

##### **butan-1-ol:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Expected to be biodegradable

##### **naphthalene:**

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 67 %  
Exposure time: 12 d

##### **4-hydroxy-4-methylpentan-2-one:**

Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Method: OECD Test Guideline 301A

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available  
Remarks: No data available

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Bioaccumulation : Remarks: The product/substance has a potential to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3.72  
Method: QSAR

##### **2-methylnaphthalene:**

Partition coefficient: n-octanol/water : log Pow: 3.86

##### **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 (68 °F / 20 °C)

##### **1-methylnaphthalene:**

Partition coefficient: n-octanol/water : log Pow: 3.87

##### **butan-1-ol:**

Partition coefficient: n-octanol/water : Pow: 1 (77 °F / 25 °C)

##### **naphthalene:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 168

Partition coefficient: n-octanol/water : log Pow: 3.7

##### **4-hydroxy-4-methylpentan-2-one:**

Partition coefficient: n-octanol/water : log Pow: -0.09  
Method: QSAR

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

### Mobility in soil

#### Components:

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Distribution among environmental compartments : Remarks: Expected to partition to sediment and wastewater solids. Moderately volatile.

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

Distribution among environmental compartments : Koc: 866, log Koc: 2.93  
Remarks: Mobile in soils

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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.

### Endocrine disrupting properties

No data available

---

## SECTION 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.

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

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

---

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl)  
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. (Carfentrazone-ethyl)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl)  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
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.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
butan-1-ol	71-36-3	100	100 (F003)

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

butan-1-ol	71-36-3	>= 1 - < 5 %
naphthalene	91-20-3	>= 0.1 - < 1 %

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

2-methylnaphthalene	91-57-6	>= 20 - < 30 %
1-methylnaphthalene	90-12-0	>= 5 - < 10 %
butan-1-ol	71-36-3	>= 1 - < 5 %

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

naphthalene	91-20-3	>= 0.1 - < 1 %
-------------	---------	----------------

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

naphthalene	91-20-3	>= 0.1 - < 1 %
-------------	---------	----------------

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

1-methylnaphthalene	90-12-0
butan-1-ol	71-36-3

#### Pennsylvania Right To Know

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5
2-methylnaphthalene	91-57-6
carfentrazone-ethyl (ISO)	128639-02-1
1-methylnaphthalene	90-12-0
butan-1-ol	71-36-3
naphthalene	91-20-3

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

---

### Maine Chemicals of High Concern

Product does not contain any listed chemicals

### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

### Washington Chemicals of High Concern

Product does not contain any listed chemicals

### California Prop. 65

WARNING: This product can expose you to chemicals including naphthalene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California List of Hazardous Substances

butan-1-ol      71-36-3

### California Permissible Exposure Limits for Chemical Contaminants

butan-1-ol      71-36-3

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

- TW TCSI : On the inventory, or in compliance with the inventory
- US TSCA : Product contains substance(s) not listed on TSCA inventory.
- AU AIIC : Not in compliance with the inventory
- CA. DSL : This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
- JP ENCS : Not in compliance with the inventory
- JP ISHL : On the inventory, or in compliance with the inventory
- KR KECI : On the inventory, or in compliance with the inventory
- PH PICCS : Not in compliance with the inventory
- CN IECSC : On the inventory, or in compliance with the inventory
- NZ NZIoC : Not in compliance with the inventory
- TH TECI : Not in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version 1.2      Revision Date: 03/19/2026      SDS Number: 50001765      Date of last issue: 11/12/2025  
Date of first issue: 05/01/2019

### FIFRA information

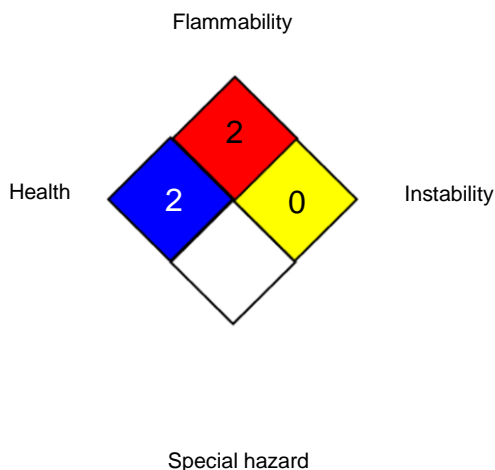
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. This product is toxic to fish and invertebrates.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV / CED:

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA : 8-hour, time-weighted average
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

NIOSH REL / ST	:	workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA P0 / C	:	Ceiling limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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 Organization 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

### 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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AIM® EC HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2025
1.2	03/19/2026	50001765	Date of first issue: 05/01/2019

---

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.

US / EN

### Person who prepared the SDS:

FMC Corporation

FMC and the FMC Logo are trademarks of FMC Corporation and/or an affiliate.

© 2021-2026 FMC Corporation. All Rights Reserved.

**End of Material Safety Data Sheet**