according to the Hazardous Products Regulations



## AIM® EC HERBICIDE

Version 1.10

Revision Date: 11/12/2025

SDS Number: 50001765

Date of last issue: 10/06/2022 Date of first issue: 05/01/2019

#### **SECTION 1. IDENTIFICATION**

**Product identifier** 

Product name AIM® EC HERBICIDE

Other means of identification

Product code 50001765

Chemical nature Mixture

**Product Registration Num-**

ber

PCP #28573

Recommended use of the chemical and restrictions on use

**Recommended use** Can be used as herbicide only.

**Restrictions on use**Use as recommended by the label.

Manufacturer or supplier's details

Manufacturer FMC Corporation

2929 WALNUT ST

PHILADELPHIA PA 19104

USA

Web: https://ag.fmc.com/ca/en

SDS-Info@fmc.com

<u>Supplier Address</u> FMC of Canada Limited

6755 Mississauga Road, Suite 204

Mississauga, ON L5N 7Y2

Canada

**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 Hazardous Products Regulations

Carcinogenicity : Category 2

according to the Hazardous Products Regulations



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Aspiration hazard : Category 1

**GHS** label elements

Hazard pictograms

Signal Word : DANGER

Hazard Statements : H304 May be fatal if swallowed and enters airways.

H351 Suspected of causing cancer.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste

disposal plant.

Other hazards

Very toxic to aquatic life with long lasting effects.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Mixture

### Components

	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Solvent naphtha (petro- leum), heavy arom.; Kerosine — unspeci- fied	Aromatic hydro- carbons	64742-94-5	>= 60 - < 80 *
carfentrazone-ethyl (ISO)	Carfentrazone- ethyl	128639-02-1	21.9

according to the Hazardous Products Regulations



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butan-1-ol	1-Butanol	71-36-3	>= 1 - < 5 *
4-hydroxy-4-	4-hydroxy-4-	123-42-2	
methylpentan-2-one	methylpentan-2-		>= 0.1 - < 1 *
	one		

Actual concentration or concentration range is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Call a physician or poison control center immediately.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

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 induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

May be fatal if swallowed and enters airways.

Suspected of causing cancer.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Dry chemical, CO2, 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.

according to the Hazardous Products Regulations



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Hazardous combustion prod-

Carbon oxides

Fire may produce irritating, corrosive and/or toxic gases.

Nitrogen oxides (NOx) Fluorine compounds Hydrogen cyanide Hydrogen chloride Chlorinated compounds

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- : tive equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation.

If it can be safely done, stop the leak.

Do not touch or walk through the spilled material.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Never return spills in original containers for re-use.

Only qualified personnel equipped with suitable protective

equipment may intervene.

**Environmental precautions** 

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

Keep in suitable, closed containers for disposal.

### **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

Avoid formation of aerosol. Do not breathe vapors/dust.

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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 ap-

plication 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 : Prevent unauthorized access.

No smoking.

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. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age 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/m3 (total hydrocarbon vapor)	CA AB OEL
		TWAEV	200 mg/m3	CA QC OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
carfentrazone-ethyl (ISO)	128639-02-1	TWA (Inhal- able particu- late matter)	1 mg/m3	ACGIH
butan-1-ol	71-36-3	TWA	20 ppm 60 mg/m3	CA AB OEL
		TWA	15 ppm	CA BC OEL
		С	30 ppm	CA BC OEL
		С	50 ppm 152 mg/m3	CA QC OEL
		TWA	20 ppm	ACGIH
4-hydroxy-4-methylpentan-2- one	123-42-2	TWA	50 ppm 238 mg/m3	CA AB OEL
		TWA	50 ppm	CA BC OEL
		TWAEV	50 ppm 238 mg/m3	CA QC OEL

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TWA 50 ppm ACGIH

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

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.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

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 : Ensure that eye flushing systems and safety showers are

located close to the working place. Wear suitable protective equipment. When using do not eat, drink or smoke.

Always have on hand a first-aid kit, together with proper in-

structions.

Hygiene measures : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and immediately after handling

the product.

#### **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/freezing point : No data available

according to the Hazardous Products Regulations



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Initial boiling point and boiling : No data available

range

Flash point 75.6 °C

Method: closed cup

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

Density 9 lb/gal

Solubility(ies)

Water solubility No data available

Partition coefficient: n-

octanol/water

No data available

No data available Decomposition temperature

Viscosity

Viscosity, dynamic No data available

Viscosity, kinematic No data available

No data available Explosive properties

Oxidizing properties No data available

### **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 reac-

tions

No decomposition if stored and applied as directed.

Vapors may form explosive mixture with air.

Conditions to avoid Heat, flames and sparks.

Avoid formation of aerosol.

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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 inhala-

tion 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

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 tox-

city

Remarks: no mortality

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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 inhala-

tion 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

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

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

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

**Product:** 

Species : Rabbit Result : slight irritation

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Remarks : May cause skin irritation and/or dermatitis.

**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 classifica-

tion

Based on data from similar materials

carfentrazone-ethyl (ISO):

Species : Rabbit

Assessment : Not classified as irritant

Method : US EPA Test Guideline OPP 81-5

Result : slight irritation

GLP : yes

butan-1-ol:

Species : Rabbit Result : Skin irritation

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

Species : Rabbit

Method : OECD Test Guideline 404

Result : slight irritation

Serious eye damage/eye irritation

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

**Product:** 

Result : slight irritation

Remarks : May cause irreversible eye damage.

Components:

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

Species : Rabbit

Assessment : No eye irritation

Remarks : Minimal effects that do not meet the threshold for classifica-

tion.

Based on data from similar materials

carfentrazone-ethyl (ISO):

Species : Rabbit

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Result : slight irritation

Assessment : Not classified as irritant

Method : EPA OPP 81-4

GLP : yes

butan-1-ol:

Species : Rabbit

Result : Irreversible effects on the eye

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:** 

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.

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#### 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

### 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

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

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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.

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

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:** 

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Carcinogenicity - Assess-

ment

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 - Assess-

ment

Not classifiable as a human 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 - Assess-

ment

Animal testing did not show any carcinogenic effects.

#### Reproductive toxicity

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

#### **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

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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 - As-

sessment

Animal testing showed no reproductive toxicity.

#### 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 - As-

sessment

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

### STOT-single exposure

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

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#### Components:

carfentrazone-ethyl (ISO):

Remarks : No significant adverse effects were reported

butan-1-ol:

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

dizziness.

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

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

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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

butan-1-ol:

Species : Rat

NOAEL : 1,500 mg/m³
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

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.

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#### 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.

## Experience with human exposure

### **Components:**

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

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

cracking.

#### **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

according to the Hazardous Products Regulations



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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 (Chron-

ic 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

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

according to the Hazardous Products Regulations



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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

Toxicity to fish (Chronic tox-

icity)

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 (Chron-

ic 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 or-

ganisms

NOEC (Eisenia fetida (earthworms)): 820 mg/kg

Method: OECD Test Guideline 216

Remarks: No significant adverse effect on Nitrogen minerali-

according to the Hazardous Products Regulations



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zation.

Method: OECD Test Guideline 217

Remarks: No significant adverse effect on Carbon mineraliza-

tion.

Toxicity to terrestrial organ-

isms

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.

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

according to the Hazardous Products Regulations



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Toxicity to daphnia and other aquatic invertebrates (Chron-

ic 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

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 : aquatic invertebrates (Chron-

ic toxicity)

LOEC (Daphnia magna (Water flea)): > 100 mg/l

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 %

according to the Hazardous Products Regulations



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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 :

butan-1-ol:

Biodegradability : Result: Readily biodegradable.

Remarks: Expected to be biodegradable

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

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable. Method: OECD Test Guideline 301A

Bioaccumulative potential

**Components:** 

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

Bioaccumulation : Remarks: The product/substance has a potential to bioaccu-

mulate.

Partition coefficient: n-

octanol/water

log Pow: 3.72

Method: QSAR

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)

butan-1-ol:

Partition coefficient: n-

octanol/water

Pow: 1 (25 °C)

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

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

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#### 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:** 

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**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 chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

#### **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 : no

**IATA-DGR** 

UN/ID No. : UN 3082

according to the Hazardous Products Regulations



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Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Carfentrazone-ethyl)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 964

aircraft)

Packing instruction (passen: :

ger aircraft)

964

**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 Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**

**TDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Carfentrazone-ethyl)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes

Remarks : Display "inhalation hazard" mark on package in accordance

with TDG 4.23.

#### 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**

NPRI Components : Solvent naphtha (petroleum), heavy arom.; Kerosine — un-

specified butan-1-ol

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

TCSI : On the inventory, or in compliance with the inventory

according to the Hazardous Products Regulations



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TSCA		: Product conta	: Product contains substance(s) not listed on TSCA inventory.		
AIIC		: Not in complia	: Not in compliance with the inventory		
DSL		CEPA DSL Ir cide subject t	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 (PCPA) requirements.		

Not in compliance with the inventory

trol Products Act, prior to using or handling this pest control

ISHL : On the inventory, or in compliance with the inventory

product.

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

#### Canadian lists

**ENCS** 

No substances are subject to a Significant New Activity Notification.

#### **PMRA/PCPA Information**

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:, Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product

#### **CAUTION**

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**

#### Full text of other abbreviations

according to the Hazardous Products Regulations



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ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL'

CA BC OEL : Canada. British Columbia OEL

CA QC OEL : Québec. Regulation respecting occupational health and safe-

ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants

ACGIH / TWA : 8-hour, time-weighted average CA AB OEL / TWA : 8-hour Occupational exposure limit CA BC OEL / TWA : 8-hour time weighted average

CA BC OEL / C : ceiling limit

CA QC OEL / TWAEV : Time-weighted average exposure value

CA QC OEL / C : Ceiling

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

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End of Safety Data Sheet