

# **Trivence®**

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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

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

Product name : Trivence®

Manufacturer or supplier's details

**COMPANY IDENTIFICATION** 

Manufacturer/importer : CORTEVA AGRISCIENCE LLC

9330 ZIONSVILLE RD

INDIANAPOLIS, IN, 46268-1053

**UNITED STATES** 

**Customer Information**: 1-800-258-3033

Number

E-mail address : customerinformation@corteva.com

**Emergency telephone** : INFOTRAC (CONTRACT 84224).

800-992-5994 or 317-337-6009

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

Restrictions on use : Do not use product for anything outside of the above specified

uses.

#### **SECTION 2. HAZARDS IDENTIFICATION**

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

Acute toxicity (Oral) : Category 4

Eye irritation : Category 2A

Reproductive toxicity : Category 1B

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**GHS** label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H360 May damage 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.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

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.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

**Additional Labeling** 

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 4.752 %

Other hazards

None known.

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

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
metribuzin (ISO)	21087-64-9	44.6



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N-(7-fluoro-3,4-dihydro3-oxo-4-prop2- ynyl-2H-1,4-benzoxazin6- yl)cyclohex1-ene-1,2-dicarboximide	103361-09-7	12.8
Chlorimuron ethyl	90982-32-4	3.9
Kaolin	1332-58-7	>= 10 - < 20
Sucrose	57-50-1	>= 3 - < 10
Sodium lauryl sulfate	151-21-3	>= 1 - < 3
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	>= 0.3 - < 1

Actual concentration is withheld as a trade secret

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

General advice : For medical emergencies involving this product, call toll free 1-

888-226-8832. See Label for Additional Precautions and Di-

rections for Use.

Information presented in Section 4 conforms to the requirements of theOccupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection

Agency (EPA), or by state Regulatory Agencies.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If inhaled : Move to fresh air.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained per-

sonnel.

Call a poison control center or doctor for treatment advice.

In case of skin contact : Take off all contaminated clothing immediately.

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact : Hold eye open and rinse slowly and gently with water for 15-

20 minutes.

Remove contact lenses, if present, after the first 5 minutes,

then continue rinsing eye.

Call a poison control center or doctor for treatment advice.

If swallowed : Call a poison control center or doctor for treatment advice.

Have person sip a glass of water if able to swallow.

DO NOT induce vomiting unless directed to do so by a physi-

cian or poison control center.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

None known.





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**SECTION 5. FIRE-FIGHTING MEASURES** 

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Unsuitable extinguishing

media

Dry chemical

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health.

Applying foam will release significant amounts of hydrogen

gas that can be trapped under the foam blanket.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may

be toxic and/or irritating.

Specific extinguishing meth-

ods

Do not allow extinguishing medium to contact container contents. Most fire extinguishing media will cause hydrogen evolution, and once the fire is put out, may accumulate in poorly ventilated or confined areas and result in flash fire or explo-

sion if ignited.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

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.

Special protective equipment:

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

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

Personal precautions, protective equipment and emer-

gency procedures

Avoid dust formation. Avoid breathing dust.

Use personal protective equipment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages



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cannot be contained.

Prevent from entering into soil, ditches, sewers, undwater. See

Section 12, Ecological Information.

Methods and materials for containment and cleaning up

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in.

Pick up and arrange disposal without creating dust.

Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

pressurization of the container.

Keep in suitable, closed containers for disposal.

Sweep up or vacuum up spillage and collect in suitable con-

tainer for disposal.

See Section 13, Disposal Considerations, for additional infor-

mation.

#### **SECTION 7. HANDLING AND STORAGE**

Local/Total ventilation : Use with local exhaust ventilation.

Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapors/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety

practice.

Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the ap-

plication area.

Do not get on skin or clothing. Avoid inhalation of vapor or mist.

Do not swallow. Do not get in eyes.

Avoid contact with skin and eyes. Keep container tightly closed.

Take care to prevent spills, waste and minimize release to the

environment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage : Store in a closed container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Keep in properly labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

Organic peroxides

**Explosives** 

Packaging material : Unsuitable material: None known.



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#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
metribuzin (ISO)	21087-64-9	TWA	5 mg/m3	ACGIH
		TWA	5 mg/m3	OSHA P0
Kaolin	1332-58-7	TWA (Respirable particulate matter)	2 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		PEL (respir- able)	0.05 mg/m3	OSHA CARC
Sucrose	57-50-1	TWA	10 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH
		TWA (Total dust)	10 mg/m3	OSHA P0

## **Engineering measures**

Information presented in Section 8 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory

Ensure adequate ventilation.





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Personal protective equipment

Skin and body protection : PPE required for early entry to treated areas that is permitted

underthe Worker Protection Standard and that involves contact with anythingthat has been treated, such as plants, soil,

or water, is: Coveralls

Chemical resistant gloves made of any waterproofmaterial,

such as polyethylene or polyvinyl chloride.

Shoes plus socks

Mixers, loaders, applicators and other handlers must wear:

Long sleeved shirt and long pants

Chemical resistant gloves made of any waterproofmaterial,

such as polyethylene or polyvinyl chloride.

Shoes plus socks

Protective measures : Follow manufacturer's instructions for cleaning/maintaining

PPE. If no such instructions for washables exist, use detergent and hotwater. Keep and wash PPE separately from

other laundry.

Use this product in accordance with its label.

Hygiene measures : Wash hands thoroughly with soap and water after handling

and before eating, drinking, chewing gum, using tobacco, or

using the toilet.

Remove clothing/PPE immediately if material gets inside.

Wash thoroughly and put on clean clothing.

Remove personal protective equipment immediately after

handling this product.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : solid, granules

Color : blend of white and brown

Odor : pungent

Odor Threshold : No data available

pH : 7.6

Melting point/range : No data available

Freezing point Not applicable

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable



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Flammability (solid, gas) : The product is not flammable.

Upper explosion limit / Upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Bulk density : 0.52 - 0.72 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : No data available

Autoignition temperature : Not applicable

Viscosity

Viscosity, dynamic : Not applicable

Explosive properties : No data available

Oxidizing properties : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.

Stable under normal conditions.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

Conditions to avoid : None known.

Incompatible materials : None.

Hazardous decomposition

products

Decomposition products depend upon temperature, air supply

and the presence of other materials.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 718.12 mg/kg

Method: Calculation method



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Acute inhalation toxicity : Acute toxicity estimate: 11.78 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

**Components:** 

metribuzin (ISO):

Acute oral toxicity : LD50 (Rat): 322 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.04 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-

**dicarboximide:**Acute oral toxicity

: Remarks: Very low toxicity if swallowed.

Harmful effects not anticipated from swallowing small

amounts.

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

Acute inhalation toxicity : Remarks: Prolonged excessive exposure to dust may cause

adverse effects.

Excessive exposure may cause irritation to upper respiratory

tract (nose and throat).

LC50 (Rat): > 3.93 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : Remarks: Prolonged skin contact is unlikely to result in ab-

sorption of harmful amounts.

LD50 (Rat): > 2,000 mg/kg

**Chlorimuron ethyl:** 

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

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.18 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg



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Kaolin:

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

Sucrose:

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

Assessment: The substance or mixture has no acute oral tox-

icity

Sodium lauryl sulfate:

Acute oral toxicity : LD50 (Rat): 1,200 mg/kg

Acute inhalation toxicity : Remarks: No adverse effects are anticipated from single ex-

posure to dust.

Dust may cause irritation to upper respiratory tract (nose and

throat).

LC0 (Rat): > 0.975 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

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

Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 6.82 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

Skin corrosion/irritation

Components:

Chlorimuron ethyl:

Species : Rabbit

Kaolin:

Species : Rabbit

Result : No skin irritation

Sucrose:

Species : Rabbit



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No skin irritation Result

Sodium lauryl sulfate:

Result Skin irritation

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

**Species** Rabbit

Method **OECD Test Guideline 404** 

Result No skin irritation

Serious eye damage/eye irritation

**Components:** 

Kaolin:

**Species** Rabbit

Result No eye irritation

Sucrose:

**Species** Rabbit

Result No eye irritation

Sodium lauryl sulfate:

Result : Corrosive

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic

diameter ≤ 10 µm]:

Species Rabbit

Result No eve irritation

Method **OECD Test Guideline 405** 

Respiratory or skin sensitization

**Components:** 

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-

dicarboximide:

Remarks Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks For respiratory sensitization:

No relevant data found.

**Chlorimuron ethyl:** 

Remarks For skin sensitization:

Did not demonstrate the potential for contact allergy in mice.

Remarks For respiratory sensitization:

No relevant data found.



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Sodium lauryl sulfate:

Assessment : Does not cause skin sensitization.

Remarks : For skin sensitization:

For similar material(s):

Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No data available.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Species : Guinea pig

Assessment : Does not cause skin sensitization.

Method : OECD Test Guideline 406

Species : Mouse

Assessment : Does not cause respiratory sensitization.

Germ cell mutagenicity

**Components:** 

metribuzin (ISO):

Germ cell mutagenicity - : In vitro genetic toxicity studies were negative., Animal genetic

Assessment toxicity studies were negative.

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-dicarboximide:

Germ cell mutagenicity - : In vitro genetic toxicity studies were predominantly negative.,

Assessment Animal genetic toxicity studies were negative.

Sucrose:

Germ cell mutagenicity - : In vitro genetic toxicity studies were inconclusive., Animal

Assessment genetic toxicity studies were inconclusive

Sodium lauryl sulfate:

Germ cell mutagenicity - : In vitro genetic toxicity studies were negative., Animal genetic

Assessment toxicity studies were negative.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Germ cell mutagenicity - : In vitro genetic toxicity studies were negative.

Assessment



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Carcinogenicity

Components:

metribuzin (ISO): Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-dicarboximide:

- · · · · · ·

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

Kaolin:

Carcinogenicity - Assess-

ment

Animal testing did not show any carcinogenic effects.

Available data suggest that the material is unlikely to cause

cancer.

Sodium lauryl sulfate:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

IARC Group 1: Carcinogenic to humans

Kaolin 1332-58-7

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

titanium dioxide; [in powder form containing 1 % or more of particles with aero-

dynamic diameter  $\leq$  10 µm] 13463-67-7

OSHA specifically regulated carcinogen

Kaolin 1332-58-7

(crystalline silica)

NTP Known to be human carcinogen

Kaolin 1332-58-7

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

**Components:** 

metribuzin (ISO):

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Did not cause birth defects or other effects in the fetus even at



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doses which caused toxic effects in the mother.

# N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-dicarboximide:

Reproductive toxicity - As-

sessment

Presumed human reproductive toxicant

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to

the parent animals.

Has caused birth defects in laboratory animals at doses nontoxic to the mother.. Has been toxic to the fetus in lab animals

at doses nontoxic to the mother.

Chlorimuron ethyl:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Has caused birth defects in laboratory animals only at doses

toxic to the mother.

Sodium lauryl sulfate:

Reproductive toxicity - As-

sessment

Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory

animals.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Did not cause birth defects or any other fetal effects in labora-

tory animals.

STOT-single exposure

**Components:** 

metribuzin (ISO):

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

**Chlorimuron ethyl:** 

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Kaolin:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Sucrose:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.



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Sodium lauryl sulfate:

Routes of exposure : Inhalation

Target Organs : Respiratory Tract

Assessment : May cause respiratory irritation.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Repeated dose toxicity

**Components:** 

metribuzin (ISO):

Remarks : Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-dicarboximide:

Remarks : In animals, effects have been reported on the following or-

gans: Blood. Liver. Kidney.

**Chlorimuron ethyl:** 

Remarks : In animals, effects have been reported on the following or-

gans: Liver.

Kaolin:

Remarks : Repeated excessive exposure to crystalline silica may cause

silicosis, a progressive and disabling disease of the lungs.

Sodium lauryl sulfate:

Remarks : May cause abdominal discomfort or diarrhea.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Species : Rat

NOAEL : 1,000 mg/kg

Application Route : Oral

Method : OECD Test Guideline 408

Remarks : Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.



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#### **Aspiration toxicity**

### **Components:**

## metribuzin (ISO):

Based on physical properties, not likely to be an aspiration hazard.

# N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-dicarboximide:

Based on physical properties, not likely to be an aspiration hazard.

## **Chlorimuron ethyl:**

Based on physical properties, not likely to be an aspiration hazard.

#### Kaolin-

Based on physical properties, not likely to be an aspiration hazard.

# Sodium lauryl sulfate:

Based on physical properties, not likely to be an aspiration hazard.

# titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Based on physical properties, not likely to be an aspiration hazard.

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

### **Components:**

#### metribuzin (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 74.6 mg/l

Exposure time: 96 h

Remarks: Information source: Data provided by an external

source.

(Data on the product itself)

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna): 49.0 mg/l

Exposure time: 48 h Test Type: Static

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 0.0265

mg/l

Exposure time: 72 h Test Type: Static

Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapita): 0.0265 mg/l

Exposure time: 72 h



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Test Type: Static

Method: OECD Test Guideline 201

ErC50 (Lemna gibba): 0.0385 mg/l

Exposure time: 7 d Test Type: semi-static test

Method: OECD Test Guideline 221

ErC50 (Myriophyllum spicatum): 0.154 mg/l

Exposure time: 14 d Test Type: semi-static test

NOEC (Lemna gibba): 0.000205 mg/l

Exposure time: 7 d Test Type: semi-static test

Method: OECD Test Guideline 221

M-Factor (Acute aquatic tox-

icity)

10

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 13.1 mg/l

Exposure time: 36 d

Test Type: flow-through test Method: OECD Test Guideline 210

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.32 mg/l

Exposure time: 21 d Test Type: semi-static test

Method: OECD Test Guideline 211 or Equivalent

M-Factor (Chronic aquatic

toxicity)

100

# N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-dicarboximide:

Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on

an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive

species).

LC50 (Oncorhynchus mykiss (rainbow trout)): 2.7 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 5.9 mg/l

Exposure time: 48 h

LC50 (saltwater mysid Mysidopsis bahia): 0.23 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)):

0.000852 mg/l

Exposure time: 72 h

EC50 (Lemna gibba): 0.00035 mg/l

Exposure time: 14 d



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M-Factor (Acute aquatic tox-

icity)

1,000

Toxicity to fish (Chronic tox-

icity)

(Oncorhynchus mykiss (rainbow trout)): 0.37 mg/l

Exposure time: 21 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

(Daphnia magna (Water flea)): 0.057 mg/l

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

1,000

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 982 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

Remarks: Material is practically non-toxic to birds on an acute

basis (LD50 > 2000 mg/kg)., Material is practically non-toxic to

birds on a dietary basis (LC50 > 5000 ppm).

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2250

mg/kg bodyweight.

dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5620

mg/kg diet.

oral LD50 (Apis mellifera (bees)): > 100 µg/bee

Exposure time: 48 d

(Apis mellifera (bees)): > 105 μg/bee

Exposure time: 48 d

Chlorimuron ethyl:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 120

mg/l

End point: mortality Exposure time: 96 h Test Type: Static

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,000 mg/l

End point: mortality Exposure time: 48 h Test Type: Static

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 0.004 mg/l

End point: Growth rate Exposure time: 120 h Test Type: Static

NOEC (Selenastrum capricornutum (green algae)): 0.00052

mg/l

End point: Growth rate Exposure time: 120 h



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Test Type: Static

EC50 (Anabaena flos-aquae (cyanobacterium)): 0.045 mg/l

End point: Growth rate Exposure time: 120 h Test Type: Static

NOEC (Anabaena flos-aquae (cyanobacterium)): 0.0031 mg/l

End point: Growth rate Exposure time: 120 h Test Type: Static

EC50 (Lemna gibba (gibbous duckweed)): 0.00027 mg/l

End point: Number of fronds

Exposure time: 14 d Test Type: Static

NOEC (Lemna gibba (gibbous duckweed)): 0.00007 mg/l

End point: Number of fronds

Exposure time: 14 d Test Type: Static

EC50 (Lemna gibba (gibbous duckweed)): 0.00045 mg/l

End point: Biomass Exposure time: 14 d Test Type: Static

NOEC (Lemna gibba (gibbous duckweed)): 0.0002 mg/l

End point: Biomass Exposure time: 14 d Test Type: Static

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.001

ma/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

1,000

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 7.6 mg/l

Exposure time: 90 d Test Type: flow-through

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 106 mg/l

Exposure time: 21 d Test Type: semi-static test

M-Factor (Chronic aquatic

toxicity)

: 1,000

Toxicity to terrestrial organ-

isms

: LC50 (Colinus virginianus (Bobwhite quail)): > 5,620 ppm

Exposure time: 8 d End point: mortality

contact LD50 (Apis mellifera (bees)): > 12.5 µg/bee



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Exposure time: 48 h End point: mortality

Sucrose:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 72 h Test Type: static test

Method: Method Not Specified.

Sodium lauryl sulfate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.6 mg/l

Exposure time: 96 h

Method: Method Not Specified.

LC50 (Pimephales promelas (fathead minnow)): 29 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 6.2 - 49.4 mg/l

Exposure time: 48 h

Method: Method Not Specified.

LC50 (saltwater mysid Mysidopsis bahia): 6.1 - 18.3 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 117

mg/l

End point: Biomass Exposure time: 96 h

Toxicity to microorganisms : EC50 (activated sludge): 130 - 170 mg/l

Exposure time: 30 min Method: OECD 209 Test

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

NOEC (Algae): 5,600 mg/l Exposure time: 72 h



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#### Persistence and degradability

**Components:** 

metribuzin (ISO):

Biodegradability : Result: Not readily biodegradable.

Remarks: Not readily biodegraded.

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-

**dicarboximide:**Biodegradability

Result: Not readily biodegradable.

Remarks: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is

not biodegradable under environmental conditions.

Chlorimuron ethyl:

Biodegradability : Biodegradation: 0.21 %

Result: Not readily biodegradable.

Remarks: Material is not readily biodegradable according to

OECD/EEC guidelines.

Sucrose:

ThOD : 1.12 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Concentration: 1,500,000 1/cm3 Rate constant: 1.1479E-10 cm3/s

Method: Estimated.

Sodium lauryl sulfate:

Biodegradability : Remarks: Material is readily biodegradable. Passes OECD

test(s) for ready biodegradability.

aerobic

Concentration: 100 mg/l Result: Readily biodegradable.

Biodegradation: 85 % Exposure time: 14 d

Method: OECD Test Guideline 301C or Equivalent

Remarks: 10-day Window: Not applicable

Result: Readily biodegradable.

Biodegradation: 95 % Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Pass

Biochemical Oxygen De-

mand (BOD)

57 - 97 %

Incubation time: 5 d



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Chemical Oxygen Demand

(COD)

0.68 mg/g

**ThOD** 2.00 kg/kg

Bioaccumulative potential

**Components:** 

metribuzin (ISO):

Partition coefficient: n-

log Pow: 1.7

octanol/water

Method: Measured

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-

dicarboximide:

Partition coefficient: n-

octanol/water

log Pow: 2.55

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

Chlorimuron ethyl:

Partition coefficient: n-

log Pow: 1.3 (77 °F / 25 °C)

octanol/water

pH: 7

Kaolin:

Partition coefficient: n-

octanol/water

Remarks: Partitioning from water to n-octanol is not applica-

ble.

Sucrose:

Bioaccumulation Bioconcentration factor (BCF): 3

Method: Estimated.

Partition coefficient: n-

octanol/water

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

Potential for mobility in soil is very high (Koc between 0 and

50).

log Pow: -3.7 - -3.67 Method: Estimated.

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

Sodium lauryl sulfate:

Bioaccumulation Bioconcentration factor (BCF): 70

Method: Estimated.

Partition coefficient: n-

octanol/water

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).



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log Pow: 1.60 Method: Measured

## Mobility in soil

### **Components:**

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-dicarboximide:

Distribution among environ-

mental compartments

Koc: 739 - 983

Remarks: Potential for mobility in soil is low (Koc between 500

and 2000).

Sucrose:

Distribution among environ-

mental compartments

Koc: 3.16

Method: Estimated.

Remarks: Potential for mobility in soil is very high (Koc be-

tween 0 and 50).

Sodium lauryl sulfate:

Distribution among environ-

mental compartments

Remarks: Expected to be relatively immobile in soil (Koc >

5000).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an im-

portant fate process.

Koc: > 5000 Method: Estimated.

#### Other adverse effects

# **Components:**

N-(7-fluoro-3,4-dihydro3-oxo-4-prop2-ynyl-2H-1,4-benzoxazin6-yl)cyclohex1-ene-1,2-dicarboximide:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

**Chlorimuron ethyl:** 

Results of PBT and vPvB

assessment

: This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Kaolin:

Results of PBT and vPvB : This substance is not considered to be persistent, bioaccumu-



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assessment lating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Sucrose:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Sodium lauryl sulfate:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

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

#### **Disposal methods**

Waste from residues : If wastes and/or containers cannot be disposed of according

to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable requ-

lations.

If the material as supplied becomes a waste, follow all appli-

cable regional, national and local laws.

#### **SECTION 14. TRANSPORT INFORMATION**

# International Regulations

**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Flumioxazin, Metribuzin)

Class : 9
Packing group : III
Labels : 9

**IATA-DGR** 



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UN/ID No. UN 3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

(Flumioxazin, Metribuzin)

Class 9 Ш Packing group

Miscellaneous Labels

Packing instruction (cargo

aircraft)

Packing instruction (passen-956

ger aircraft)

956

**IMDG-Code** 

**UN** number UN 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Flumioxazin, Metribuzin)

Class 9 Packing group Ш Labels 9 EmS Code F-A, S-F

Marine pollutant yes

Remarks Stowage category A

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

Not applicable for product as supplied.

# **Domestic regulation**

## **49 CFR**

Not regulated as a dangerous good

#### **Further information**

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

#### 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**

SARA 311/312 Hazards Acute toxicity (any route of exposure)

Reproductive toxicity

Serious eye damage or eye irritation

**SARA 313** The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

metribuzin (ISO) 21087-64-9 >= 30 - < 50 %





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Chlorimuron 90982-32-4 >= 1 - < 5 %

ethyl

## **US State Regulations**

## Pennsylvania Right To Know

 metribuzin (ISO)
 21087-64-9

 Kaolin
 1332-58-7

 Sucrose
 57-50-1

#### California Prop. 65

WARNING: This product can expose you to chemicals including Kaolin, Quartz, Nitrilotriacetic acid, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

TSCA : Product contains substance(s) not listed on TSCA inventory.

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

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

#### Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 352-887

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:

### **CAUTION**

Harmful if swallowed, inhaled or absorbed through skin.

Causes moderate eye irritation.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## **SECTION 16. OTHER INFORMATION**

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens

OSHA PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-



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its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average
OSHA CARC / PEL : Permissible exposure limit (PEL)
OSHA P0 / TWA : 8-hour time weighted average
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 Standardisation; 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 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; 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, Authorisation 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

Revision Date : 05/18/2022

Product code: GF-4247

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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