

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## CHIMERA® SX®

Version	Revision Date:	SDS Number:	Date of last issue: -
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** CHIMERA® SX®

##### Other means of identification

**Product code** 50000050

**Unique Formula Identifier (UFI)** : MA2X-A2Y6-WN40-9A1E

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use of the Substance/Mixture** : Herbicide

**Recommended restrictions on use** : Use as recommended by the label.  
For professional users only.

#### 1.3 Details of the supplier of the safety data sheet

**Supplier Address** FMC Operational Netherlands B.V.  
The Mark - 2nd floor office 209  
Fascinatio Boulevard 216-220  
NL-3065 WB Rotterdam  
Netherlands

Telephone: +31(0)10-8081422  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
BIG (Fire Service Information Center for Hazardous Substances) 24/7, telephone number +32(0)14-584545.

Medical emergency:  
Netherlands: +31 (0) 88 755 8000  
(NVIC emergency telephone number) - For the sole purpose of informing healthcare professionals in the event of acute poisoning.

Poisoning centers may only have required information for products in accordance with Regulation (EC) No. 1272/2008 and national law.

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Short-term (acute) aquatic hazard, Category 1      H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1      H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

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

Precautionary statements : **Prevention:**

P273 Avoid release to the environment.

**Response:**

P391 Collect spillage.

**Disposal:**

P501 Dispose of contents/container to hazardous or special waste collection point.

#### Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.  
For special phrases (SP) and safety intervals, consult the label.

### 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
thifensulfuron-methyl (ISO)	79277-27-3  016-096-00-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	>= 30 - < 50
sodium carbonate	497-19-8 207-838-8 011-005-00-2	Eye Irrit. 2; H319	>= 10 - < 20
metsulfuron-methyl (ISO)	74223-64-6  613-139-00-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 1.000	>= 2,5 - < 10

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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Do not leave the victim unattended.

If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : 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 without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Risks : None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Carbon oxides  
Hydrogen cyanide  
Fire may produce irritating, corrosive and/or toxic gases.

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### 5.3 Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For disposal considerations see section 13.

### 6.2 Environmental precautions

- 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.

### 6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.

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For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Protect from frost and extreme heat.

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

### 7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
sodium carbonate	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	10 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate,

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butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.  
Equipment should conform to EN 143

Filter type : Particulates type (P)

Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Ensure that eye flushing systems and safety showers are located close to the working place.  
Wear suitable protective equipment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : solid

Form : granular

Colour : brown, light brown

Odour : slight

Odour Threshold : not determined

Melting point/range : Not available for this mixture.

Initial boiling point and boiling range : No data available

Flammability : The product is not flammable.

Upper explosion limit / Upper flammability limit : Not available for this mixture.

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Lower explosion limit / Lower flammability limit : Not available for this mixture.

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : Not available for this mixture.

pH : 9,2  
Concentration: 10 g/l 1 %  
Method: CIPAC MT 75.3

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Solubility(ies)  
Water solubility : dispersible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : Not applicable

Relative density : Not applicable

Density : No data available

Bulk density : ca. 690 kg/m<sup>3</sup>packed

Relative vapour density : Not applicable



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### Particle characteristics

Particle size : No data available

Particle Size Distribution : No data available

Shape : No data available

## 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The product is not oxidizing.

Self-ignition : Not available for this mixture.

Evaporation rate : Not available for this mixture.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid : Avoid extreme temperatures

### 10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

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

##### Components:

##### **thifensulfuron-methyl (ISO):**

Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5,03 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rat): > 2.000 mg/kg

##### **sodium carbonate:**

Acute oral toxicity	: LD50 (Rat, male and female): 2.800 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male): 2,3 mg/l Exposure time: 2 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rabbit): > 2.000 mg/kg Target Organs: Skin Symptoms: Erythema

##### **metsulfuron-methyl (ISO):**

Acute oral toxicity	: LD50 (Rat, male and female): > 5.000 mg/kg Method: US EPA Test Guideline OPP 81-1
Acute inhalation toxicity	: LC50 (Rat): > 5,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: US EPA Test Guideline OPPTS 870.1300 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rabbit, male and female): > 2.000 mg/kg Method: US EPA Test Guideline OPP 81-2

##### **Skin corrosion/irritation**

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

##### Product:

Remarks	: May cause skin irritation in susceptible persons.
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### Components:

#### **thifensulfuron-methyl (ISO):**

Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Remarks	:	Minimal effects that do not meet the threshold for classification.

#### **sodium carbonate:**

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

#### **metsulfuron-methyl (ISO):**

Species	:	Rabbit
Method	:	US EPA Test Guideline OPP 81-5
Result	:	No skin irritation

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

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

### Product:

Assessment	:	Not classified as irritant
Result	:	No eye irritation
Remarks	:	Based on available data, the classification criteria are not met.

### Components:

#### **thifensulfuron-methyl (ISO):**

Method	:	OECD Test Guideline 405
Result	:	No eye irritation

#### **sodium carbonate:**

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

#### **metsulfuron-methyl (ISO):**

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

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

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

#### **Respiratory sensitisation**

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

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### **Product:**

Remarks : Not expected to cause skin sensitisation

### **Components:**

#### **thifensulfuron-methyl (ISO):**

Species : Guinea pig  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.

#### **metsulfuron-methyl (ISO):**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : US EPA Test Guideline OPPTS 870.2600  
Result : Not a skin sensitizer.

### **Germ cell mutagenicity**

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

### **Components:**

#### **thifensulfuron-methyl (ISO):**

Genotoxicity in vitro : Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: In vitro tests did not show mutagenic effects

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

#### **sodium carbonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative  
Remarks: Based on data from similar materials

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

#### **metsulfuron-methyl (ISO):**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chromosome aberration test in vitro  
Metabolic activation: Metabolic activation  
Result: positive

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Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Result: negative

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

### Carcinogenicity

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

#### Components:

##### **thifensulfuron-methyl (ISO):**

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

##### **metsulfuron-methyl (ISO):**

Species : Rat, male and female  
Exposure time : 104 weeks  
NOAEL : 500 ppm  
Result : negative

Species : Mouse, male and female  
Exposure time : 18 month(s)  
NOAEL : 5.000 ppm  
Result : negative

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

### Reproductive toxicity

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

#### Components:

##### **thifensulfuron-methyl (ISO):**

Reproductive toxicity - Assessment : Did not show teratogenic effects in animal experiments.

##### **sodium carbonate:**

Effects on foetal development : Species: Rat  
Application Route: Oral  
Dose: 2.45, 11.4, 52.9, 245 milligram per kilogram  
Duration of Single Treatment: 6 - 15 d  
General Toxicity Maternal: NOAEL: > 245 mg/kg body weight  
Teratogenicity: NOAEL: > 245 mg/kg body weight  
Result: negative

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

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### **metsulfuron-methyl (ISO):**

Effects on fertility	:	Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Result: negative
Effects on foetal development	:	Test Type: Embryo-foetal development Species: Rabbit, female Application Route: Ingestion Symptoms: Maternal effects Result: negative
		Test Type: Embryo-foetal development Species: Rat, female Application Route: Ingestion Symptoms: Maternal effects Result: negative
Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for reproductive toxicity

### **STOT - single exposure**

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

#### **Product:**

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
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### **STOT - repeated exposure**

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

#### **Product:**

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

#### **sodium carbonate:**

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
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### **Repeated dose toxicity**

#### **Components:**

#### **thifensulfuron-methyl (ISO):**

Species	:	Rat
LOAEL	:	ca.200 mg/kg
Exposure time	:	90 d
Target Organs	:	No specific target organs noted
Symptoms	:	Reduced body weight

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### sodium carbonate:

Species	: Rat, male and female
NOAEL	: > 0,01 mg/kg
Application Route	: inhalation (dust/mist/fume)
Test atmosphere	: dust/mist

### metsulfuron-methyl (ISO):

Species	: Rat, male and female
NOEL	: 1000 ppm
Application Route	: Oral - feed
Exposure time	: 90 days
Symptoms	: Reduced body weight

### Aspiration toxicity

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

#### Product:

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

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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### Neurological effects

#### Components:

#### metsulfuron-methyl (ISO):

No neurotoxicity observed in animal studies

### Further information

#### Product:

Remarks	: Information given is based on data on the components and the toxicology of similar products.
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Remarks	: No data available
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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **thifensulfuron-methyl (ISO):**

Toxicity to fish	:	LC50 ( <i>Salmo gairdneri</i> ): 100 mg/l Exposure time: 96 h  LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): > 250 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 ( <i>Daphnia magna</i> (Water flea)): > 120 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	IC50 (green algae): 0,0159 mg/l Exposure time: 72 h  ErC50 ( <i>Raphidocelis subcapitata</i> (freshwater green alga)): 1,4 mg/l Exposure time: 72 h  EC50 ( <i>Lemna minor</i> (duckweed)): 1,3 µg/l
M-Factor (Acute aquatic toxicity)	:	100
Toxicity to fish (Chronic toxicity)	:	NOEC: 250 mg/l Exposure time: 28 d Species: <i>Salmo gairdneri</i>  NOEC: 10,6 mg/l Exposure time: 21 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 100 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea)
M-Factor (Chronic aquatic toxicity)	:	100
Toxicity to soil dwelling organisms	:	LC50: > 2.000 mg/kg Species: <i>Eisenia fetida</i> (earthworms)
Toxicity to terrestrial organisms	:	LD50: > 2.510 mg/kg Species: <i>Anas platyrhynchos</i> (Mallard duck)  LD50: > 5.620 ppm Species: <i>Anas platyrhynchos</i> (Mallard duck) Remarks: Dietary



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LD50: > 5.620 ppm  
Species: *Colinus virginianus* (Bobwhite quail)

LD50: > 7.1 µg/bee  
End point: Acute oral toxicity  
Species: *Apis mellifera* (bees)

LD50: > 100 µg/bee  
End point: Acute contact toxicity  
Species: *Apis mellifera* (bees)

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### sodium carbonate:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 300 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Ceriodaphnia* (water flea)): 200 mg/l  
Exposure time: 48 h  
Test Type: semi-static test

#### metsulfuron-methyl (ISO):

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 113 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (*Poecilia reticulata* (guppy)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 120 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (*Lemna minor* (duckweed)): 0,16 µg/l  
Exposure time: 14 d

ErC50 (*Anabaena flos-aquae* (cyanobacterium)): 0,1134 mg/l  
Exposure time: 72 h

IC50 (*Selenastrum capricornutum* (green algae)): 0,045 mg/l  
Exposure time: 72 h

ErC50 (*Myriophyllum spicatum*): 0,23 µg/l

ErC50 (*Lemna gibba* (gibbous duckweed)): 0,57 µg/l

M-Factor (Acute aquatic tox- : 1.000

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icity)

Toxicity to fish (Chronic toxicity) : NOEC: 68 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,5 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1.000

Toxicity to soil dwelling organisms : NOEC: 6 mg/kg  
Exposure time: 56 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: > 100 µg/bee  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

LD50: > 91,72 µg/bee  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)

LD50: > 2.510 mg/kg  
Species: Anas platyrhynchos (Mallard duck)

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Estimation based on data obtained on active ingredient.

#### **Components:**

##### **thifensulfuron-methyl (ISO):**

Biodegradability : Remarks: Not readily biodegradable.  
Primary degradation half-lives vary with circumstances, from a few days to a few weeks in aerobic water and soil.

##### **sodium carbonate:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

##### **metsulfuron-methyl (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Primary degradation half-lives vary with circumstances, from a few weeks to a few months in aerobic soil and

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water.

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Does not bioaccumulate.  
Estimation based on data obtained on active ingredient.

#### Components:

##### **thifensulfuron-methyl (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 1  
Remarks: Does not bioaccumulate.

##### **sodium carbonate:**

Bioaccumulation : Remarks: Does not bioaccumulate.

##### **metsulfuron-methyl (ISO):**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 28 d  
Bioconcentration factor (BCF): < 1  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -1,7 (25 °C)  
pH: 7

### 12.4 Mobility in soil

#### Product:

Distribution among environmental compartments : Remarks: Under actual use conditions the product has a low potential of mobility in soil.

#### Components:

##### **thifensulfuron-methyl (ISO):**

Distribution among environmental compartments : Koc: 28,3, log Koc: 1,45  
Remarks: Highly mobile in soils

Stability in soil :

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).. This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

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

No other ecological effects to be specially mentioned.

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

### 13.1 Waste treatment methods

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

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN	: UN 3077
ADR	: UN 3077
RID	: UN 3077
IMDG	: UN 3077

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**IATA** : UN 3077

### 14.2 UN proper shipping name

**ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Metsulfuron-methyl, Thifensulfuron-methyl)

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Metsulfuron-methyl, Thifensulfuron-methyl)

**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Metsulfuron-methyl, Thifensulfuron-methyl)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Metsulfuron-methyl, Thifensulfuron-methyl)

**IATA** : Environmentally hazardous substance, solid, n.o.s.  
(Metsulfuron-methyl, Thifensulfuron-methyl)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 9	
<b>ADR</b>	: 9	
<b>RID</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**ADR**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III

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Labels	:	9
EmS Code	:	F-A, S-F
<b>IATA (Cargo)</b>		
Packing instruction (cargo aircraft)	:	956
Packing instruction (LQ)	:	Y956
Packing group	:	III
Labels	:	Miscellaneous
<b>IATA (Passenger)</b>		
Packing instruction (passenger aircraft)	:	956
Packing instruction (LQ)	:	Y956
Packing group	:	III
Labels	:	Miscellaneous

### 14.5 Environmental hazards

<b>ADN</b>	
Environmentally hazardous	: yes
<b>ADR</b>	
Environmentally hazardous	: yes
<b>RID</b>	
Environmentally hazardous	: yes
<b>IMDG</b>	
Marine pollutant	: yes
<b>IATA (Passenger)</b>	
Environmentally hazardous	: yes
<b>IATA (Cargo)</b>	
Environmentally hazardous	: yes

### 14.6 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.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 75 If you intend to use this product as tattoo ink, please contact your vendor.
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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

General Assessment Methodology (GAM)

Aquatic harmfulness : A1 Highly toxic for aquatic organisms, may have long-term hazardous effects in aquatic environment.

Abatement effort : A

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

TCSI : Not in compliance with the inventory

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

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

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NZIoC : Not in compliance with the inventory

TECI : Not in compliance with the inventory

### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

## SECTION 16: Other information

### Full text of H-Statements

H319 : Causes serious eye irritation.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Irrit. : Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA



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- Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Calculation method
Calculation method

### Disclaimer

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