

# SAFETY DATA SHEET

## CAYMAN® WG



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

---

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : CAYMAN® WG

#### Manufacturer or supplier's details

Company : FMC Agro Kazakhstan LLP

Address : str. Timiryazeva, 26/29  
050040 Almaty  
Kazakhstan

Telephone : 1 215 / 299-6000 (Corporate of

Emergency telephone : +44 20 3885 0382 (CHEMTREC's European Regional Toll-Free  
Number)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical Emergency Number : All other countries: +1 651 / 632-6793 (Collect)

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

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

Recommended use : Herbicide

Restrictions on use : Use as recommended by the label.

---

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 5

Acute toxicity (Inhalation) : Category 5

Acute toxicity (Dermal) : Category 5

Skin irritation : Category 3

Specific target organ toxicity - : Category 2  
repeated exposure

Short-term (acute) aquatic : Category 1  
hazard

Long-term (chronic) aquatic : Category 1  
hazard



#### GHS-Labeling

# SAFETY DATA SHEET

## CAYMAN® WG



Version 1.0      Revision Date: 07.04.2025      SDS Number: 50000856      Date of last issue: -  
Date of first issue: 07.04.2025

Hazard pictograms :  

Signal Word : WARNING

Hazard Statements : H303 + H313 + H333 May be harmful if swallowed, in contact with skin or if inhaled.  
H316 Causes mild skin irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P260 Do not breathe dust.  
P273 Avoid release to the environment.  
**Response:**  
P304 + P312 IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.  
P312 Call a POISON CENTER/ doctor if you feel unwell.  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

### Components

Chemical name	CAS-No.	Classification	MAC value mg/m <sup>3</sup> / TSEL value	Concentration (% w/w)
tribenuron-methyl (ISO)	101200-48-0	Acute Tox.5; H333 Skin Sens.1; H317 STOT RE2; H373 (Thyroid, Nervous sys- tem) Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	>= 50 - < 70

# SAFETY DATA SHEET

## CAYMAN® WG



Version 1.0      Revision Date: 07.04.2025      SDS Number: 50000856      Date of last issue: -  
Date of first issue: 07.04.2025

florasulam (ISO)	145701-23-1	Acute Tox.5; H333 Acute Tox.5; H313 Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	$\geq 20 - < 25$
sodium dimethylnaphthalenesulphonate	27178-87-6	Acute Tox.5; H303 Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Acute3; H402	No data available	$\geq 3 - < 10$
Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	Eye Irrit.2A; H319 Aquatic Acute3; H402 Aquatic Chronic3; H412	No data available	$\geq 2,5 - < 10$
calcium carbonate	471-34-1	Acute Tox.5; H303 Acute Tox.5; H313	No data available	$\geq 1 - < 10$

For explanation of abbreviations see section 16.

### 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
- In case of skin contact : If on clothes, remove clothes.  
If on skin, rinse well with water.  
Wash off with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

---

- Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Generally, sulphonylurea herbicides cause lethargy, confusion, dizziness, seizures and coma on ingestion.  
May be harmful if swallowed, in contact with skin or if inhaled.  
Causes mild skin irritation.  
May cause damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.  
Immediate medical attention is required in case of ingestion.
- 

## 5. FIRE-FIGHTING MEASURES

### Flammable properties

Flash point : not determined  
Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

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

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet  
Do not spread spilled material with high-pressure water streams.

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

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

# SAFETY DATA SHEET

## CAYMAN® WG



Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

Hydrogen fluoride  
Fluorinated 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.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Keep people away from and upwind of spill/leak.  
Remove all sources of ignition.  
Immediately evacuate personnel to safe areas.  
Ensure adequate ventilation.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.  
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.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

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

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

---

place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : The product is stable under normal conditions of warehouse storage.  
Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

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

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

Respiratory protection : In case of dust exposure wear suitable personal respiratory protection and protective suit.

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

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.

Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.  
In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

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

# SAFETY DATA SHEET

## CAYMAN® WG



Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Color	: light brown
Odor	: Faint odour
Odor Threshold	: not determined
pH	: 6,3 Concentration: 1 % In a 1% aqueous dispersion
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined Decomposition
Flash point	: not determined
Evaporation rate	: not determined
Flammability (solid, gas)	: The product is not flammable.
Self-ignition	: > 400 °C
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Vapor pressure	: Not available for this mixture.
Relative vapor density	: Not applicable
Relative density	: not determined
Bulk density	: 0,63 g/m3 Pour density 0,66 g/m3 Tap density
Solubility(ies) Water solubility	: emulsifiable
Partition coefficient: n-octanol/water	: Not available for this mixture.

# SAFETY DATA SHEET



## CAYMAN® WG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

Decomposition temperature : Not available for this mixture.

Viscosity  
Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Particle size : No data available

### 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

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

Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Dust may form explosive mixture in air.

Conditions to avoid : Heat, flames and sparks.  
Protect from frost, heat and sunlight.

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

Hazardous decomposition products : Stable under recommended storage conditions.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

May be harmful if swallowed, in contact with skin or if inhaled.

#### Product:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,08 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402

#### Components:

tribenuron-methyl (ISO):



# SAFETY DATA SHEET



## CAYMAN® WG

Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

Acute oral toxicity : LD50: > 5.000 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 5,14 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### **florasulam (ISO):**

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402

### **sodium dimethylnaphthalenesulphonate:**

Acute oral toxicity : LD50 (Rat): > 2.000 - 5.000 mg/kg  
Method: OECD Test Guideline 401  
  
LD50 (Rat): > 3.000 - 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 404  
Remarks: Based on data from similar materials

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

### **calcium carbonate:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 420

Acute inhalation toxicity : LC50 (Rat, male and female): > 3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Highest attainable concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

# SAFETY DATA SHEET

## CAYMAN® WG



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

---

Method: OECD Test Guideline 402

### Skin corrosion/irritation

Causes mild skin irritation.

#### Product:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: May cause mild irritation. Minimal effects that do not meet the threshold for classification.

#### Components:

##### tribenuron-methyl (ISO):

Species	: Rabbit
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 404
Remarks	: May cause mild irritation. Based on available data, the classification criteria are not met.

##### florasulam (ISO):

Method	: OECD Test Guideline 404
Result	: No skin irritation

##### sodium dimethylnaphthalenesulphonate:

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

### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Remarks	: No data available
---------	---------------------

##### calcium carbonate:

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

### Serious eye damage/eye irritation

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

#### Product:

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

# SAFETY DATA SHEET



## CAYMAN® WG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

---

### Components:

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

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Remarks	:	May cause mild irritation. Based on available data, the classification criteria are not met.

#### **florasulam (ISO):**

Result	:	No eye irritation
Method	:	OECD Test Guideline 405

#### **sodium dimethylnaphthalenesulphonate:**

Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 437

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

#### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Result	:	Eye irritation
--------	---	----------------

#### **calcium carbonate:**

Species	:	Rabbit
Result	:	No eye irritation
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:

Test Type	:	Local lymph node assay (LLNA)
Routes of exposure	:	Skin contact
Species	:	mice
Method	:	OECD Test Guideline 429
Result	:	Not a skin sensitizer.

### Components:

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

Test Type	:	Maximization Test
-----------	---	-------------------

# SAFETY DATA SHEET

## CAYMAN® WG



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

---

Species	:	Guinea pig
Assessment	:	May cause sensitization by skin contact.
Method	:	OECD Test Guideline 406
Result	:	Causes skin sensitization.

### **florasulam (ISO):**

Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitization.

### **sodium dimethylnaphthalenesulphonate:**

Result	:	Does not cause skin sensitization.
--------	---	------------------------------------

### **calcium carbonate:**

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	Not a skin sensitizer.

### **Germ cell mutagenicity**

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

### **Components:**

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

Germ cell mutagenicity - Assessment	:	Did not show mutagenic effects in animal experiments.
-------------------------------------	---	---

#### **florasulam (ISO):**

Genotoxicity in vitro	:	Test system: Chinese hamster ovary cells Method: Regulation (EC) No. 440/2008, Annex, B.17 Result: negative
-----------------------	---	---

#### **sodium dimethylnaphthalenesulphonate:**

Genotoxicity in vitro	:	Method: OECD Test Guideline 471 Result: negative  Method: OECD Test Guideline 476 Result: negative
-----------------------	---	--

#### **calcium carbonate:**

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
-----------------------	---	--

### **Carcinogenicity**

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

### **Components:**

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

# SAFETY DATA SHEET



## CAYMAN® WG

Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

Remarks : No significant adverse effects were reported

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

### **florasulam (ISO):**

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

### **Reproductive toxicity**

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

### **Components:**

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

Reproductive toxicity - Assessment : No toxicity to reproduction  
Animal testing did not show any effects on fetal development.,  
Did not show teratogenic effects in animal experiments.

#### **florasulam (ISO):**

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility,  
or on development, based on animal experiments.

#### **calcium carbonate:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: negative

### **STOT-single exposure**

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

### **Components:**

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

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

#### **florasulam (ISO):**

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

### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

# SAFETY DATA SHEET

## CAYMAN® WG



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

---

### **Product:**

Assessment : May cause damage to organs through prolonged or repeated exposure.

### **Components:**

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

Target Organs : Thyroid, Nervous system  
Assessment : May cause damage to organs through prolonged or repeated exposure.

#### **florasulam (ISO):**

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

### **Repeated dose toxicity**

### **Components:**

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

Species : Rabbit  
LOAEL : 80 mg/kg  
Target Organs : Thyroid, Nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.  
Remarks : Increased mortality or reduced survival

#### **florasulam (ISO):**

Species : Rat  
LOAEL : 500 mg/kg  
Exposure time : 90 day  
Symptoms : kidney effects

#### **calcium carbonate:**

Species : Rat, male and female  
NOAEL : 1.000 mg/kg  
Application Route : Ingestion  
Exposure time : 48 d  
Method : OECD Test Guideline 422

### **Aspiration toxicity**

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

### **Components:**

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

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

#### **florasulam (ISO):**

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

# SAFETY DATA SHEET



## CAYMAN® WG

Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

### Further information

#### Product:

Remarks : Generally, sulphonylurea herbicides cause lethargy, confusion, dizziness, seizures and coma on ingestion.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0012 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
  
ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,022 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

ErC50 (Lemna gibba G3 (gibbous duckweed)): 0,0026 mg/l  
Exposure time: 7 d

NOEC (Lemna gibba G3 (gibbous duckweed)): 0,00052 mg/l  
Exposure time: 7 d

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): > 111 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity

LD50 (Apis mellifera (bees)): > 162 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

#### Components:

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 738 mg/l

# SAFETY DATA SHEET



## CAYMAN® WG

Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

	Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Crustaceans): > 320 mg/l Exposure time: 48 h  EC50 (Daphnia magna (Water flea)): > 894 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (green algae)): 0,0208 mg/l Exposure time: 120 h  EC50 (Lemna gibba (duckweed)): 0,00424 mg/l Exposure time: 14 d
Toxicity to fish (Chronic toxicity)	: NOEC (Cyprinodon variegatus (sheepshead minnow)): 114 mg/l Exposure time: 21 d Method: OECD Test Guideline 211  NOEC (Oncorhynchus mykiss (rainbow trout)): 560 mg/l Exposure time: 21 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 41 mg/l Exposure time: 21 d
Toxicity to soil dwelling organisms	: NOEC (Eisenia fetida (earthworms)): 3,2 mg/kg Exposure time: 56 d
Toxicity to terrestrial organisms	: LD50 (Colinus virginianus (Bobwhite quail)): > 2.250 mg/kg  LD50 (Colinus virginianus (Bobwhite quail)): > 5.620 ppm Remarks: Dietary  LD50 (Anas platyrhynchos (Mallard duck)): > 5.620 ppm Remarks: Dietary  LD50 (Apis mellifera (bees)): > 98.4 µg/bee Exposure time: 48 h End point: Acute contact toxicity  LD50 (Apis mellifera (bees)): > 9.1 µg/bee Exposure time: 48 h End point: Acute oral toxicity

### Ecotoxicology Assessment

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

### florasulam (ISO):

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
------------------	--



# SAFETY DATA SHEET



## CAYMAN® WG

Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 292 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,00894 mg/l  
Exposure time: 72 h

EC50 (Lemna gibba (gibbous duckweed)): 0,00118 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 119 mg/l  
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 38,9 mg/l  
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1.320 mg/kg

Toxicity to terrestrial organisms : LD50 (Anas platyrhynchos (Mallard duck)): > 5.000 mg/kg  
End point: Acute contact toxicity

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

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

### **sodium dimethylnaphthalenesulphonate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

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 : EC10 (Pseudokirchneriella subcapitata (green algae)): 135 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): > 810 mg/l

# SAFETY DATA SHEET



## CAYMAN® WG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

---

Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC10 (Pseudomonas putida): > 100 mg/l  
Exposure time: 16,5 h  
Method: DIN 38 412 Part 8  
Remarks: Based on data from similar materials

### Ecotoxicology Assessment

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

### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Toxicity to fish : LC50 (Zebra fish): > 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### calcium carbonate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

# SAFETY DATA SHEET



## CAYMAN® WG

Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

---

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): > 14 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1.000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

#### Components:

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

Biodegradability : Biodegradation: 29,4 %  
Exposure time: 28 d

##### **florasulam (ISO):**

Biodegradability : Result: Not readily biodegradable.

##### **sodium dimethylnaphthalenesulphonate:**

Biodegradability : Result: Inherently biodegradable.  
Method: OECD Test Guideline 301D

##### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

##### **calcium carbonate:**

Biodegradability : Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Product:

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

# SAFETY DATA SHEET

## CAYMAN® WG



Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

---

### Components:

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

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

Partition coefficient: n-octanol/water : log Pow: -0,38

#### **florasulam (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): < 2,21  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -1,1 (25 °C)  
pH: 7  
  
log Pow: 1,11 (25 °C)  
pH: 3  
  
log Pow: -1,79 (25 °C)  
pH: 10

### **Mobility in soil**

#### Product:

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

### Components:

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

Distribution among environmental compartments : Remarks: Under normal conditions the active ingredient/s is/are of high to intermediate mobility in soil. There is a potential for leaching to groundwater.

#### **florasulam (ISO):**

Distribution among environmental compartments : Koc: 22 ml/g, log Koc: 1,34  
Remarks: Highly mobile in soils

Stability in soil :

### **Other adverse effects**

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

### **Hygienic standards:**

**(Allowable concentration in air, water, including fishery waters, soil)**

## SAFETY DATA SHEET



## CAYMAN® WG

Version  
1.0

Revision Date:  
07.04.2025

SDS Number:  
50000856

Date of last issue: -  
Date of first issue: 07.04.2025

Components	Air	Water	Soil	Data Source
tribenuron-methyl (ISO) 101200-48-0	No data available	MPC: 0,2 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary - violation of environmental conditions: changing trophic water bodies fishery; hydrochemical parameters: oxygen, nitrogen, phosphorus, pH, impaired self-purification of water bodies of water fishery: BOD5 (biochemical oxygen demand for 5 days), the number of saprophytic microflora Hazard class: 3 MPC: 0,1 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxicological effects Hazard class: 3	No data available	List 5
florasulam (ISO) 145701-23-1	No data available	MPC: 0,1 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 5
calcium carbonate 471-34-1	MPC - maximum: 0,5 mg/m <sup>3</sup> Limiting health hazard indicator: resorptive Hazard class: Class 3 - moderately dangerous MPC - average: 0,15 mg/m <sup>3</sup> Limiting health hazard indicator: resorptive	No data available	No data available	List 1 List 2

# SAFETY DATA SHEET



## CAYMAN® WG

Version 1.0      Revision Date: 07.04.2025      SDS Number: 50000856      Date of last issue: -  
Date of first issue: 07.04.2025

	tive Hazard class: Class 3 - moderately dan- gerous TSEL: 0,5 mg/m3			
--	--	--	--	--

For explanation of abbreviations see section 16.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

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

### 14. TRANSPORT INFORMATION

#### ADR

- UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Tribenuron-methyl, Florasulam)  
Class : 9  
Packing group : III  
Labels : 9  
Hazard Identification Number : 90  
Tunnel restriction code : (-)  
Environmentally hazardous : yes

#### UNRTDG

- UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Tribenuron-methyl, Florasulam)  
Class : 9  
Subsidiary risk : ENVIRONM.  
Packing group : III  
Labels : 9 (ENVIRONM.)

#### IATA-DGR

- UN/ID No. : UN 3077

# SAFETY DATA SHEET

## CAYMAN® WG



Version 1.0	Revision Date: 07.04.2025	SDS Number: 50000856	Date of last issue: - Date of first issue: 07.04.2025
----------------	------------------------------	-------------------------	--

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Tribenuron-methyl, Florasulam)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Tribenuron-methyl, Florasulam)  
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.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. REGULATORY INFORMATION

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

#### The ingredients 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 chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.  
ENCS : Not in compliance with the inventory  
ISHL : Not in compliance with the inventory

## CAYMAN® WG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

## 16. OTHER INFORMATION

## Full text of H-Statements

H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H333	May be harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

## Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitization
STOT RE	:	Specific target organ toxicity - repeated exposure
List 1	:	SanPiN 1.2.3685-21 Table 1.1 Maximum permissible concentration (MPC) of pollutants in the air of urban and rural settlements
List 2	:	SanPiN 1.2.3685-21 Table 1.2 Tentative Safe Exposure Levels (TSEL) of pollutants in the air of urban and rural settlements
List 5	:	Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies"

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



# SAFETY DATA SHEET



## CAYMAN® WG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07.04.2025	50000856	Date of first issue: 07.04.2025

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

Other information :

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to insure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

KZ / EN