## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : FMC Graslan™ Herbicide

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

Restrictions on use : Use as recommended by the label.

Manufacturer or supplier's details

Company : FMC Australasia Pty Ltd

Address : Building B, Suite G.01, 12 Julius Avenue

North Ryde NSW 2113

Australia

Telephone : 1 800 066 355

Telefax : (02) 9923 6011

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

Emergency telephone number : For leak, fire, spill or accident emergencies, call:

1800 033 111 (Ixom)

Medical emergency:

1 800 033 111 (Transport and 24 h Medical information)

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

### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

### Other hazards which do not result in classification

Toxic to aquatic life with long lasting effects.

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

Substance / Mixture : Mixture

#### Components

# FMC Graslan™ Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

Chemical name	CAS-No.	Concentration (% w/w)	
tebuthiuron (ISO)	34014-18-1	>= 10 -< 30	
Quartz (SiO2)	14808-60-7	>= 10 -< 30	

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

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

Get medical attention if irritation develops and persists.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.

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.

Most important symptoms and effects, both acute and

delayed

None known.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

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

courses.

Hazardous combustion prod-

ucts

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

Nitrogen oxides (NOx)

Carbon oxides Sulphur oxides

Specific extinguishing meth-

ods

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Hazchem Code : 2Z

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

Personal precautions, protective equipment and emer-

gency procedures

Evacuate personnel to safe areas.

Use personal protective equipment.

Avoid dust formation.

Avoid breathing dust.

If it can be safely done, stop the leak.

Do not touch or walk through the spilled material.

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.

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

Advice on protection against

fire and explosion

Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

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

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

# **FMC** Graslan™ Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

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

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO2)	14808-60-7		0.05 mg/m3 ation: Category 1A (Category 1A (	

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.

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

Appearance : pellets

Colour : off-white

Odour : odourless

pH : not determined

Melting point/freezing point : not determined

Boiling point/boiling range : Not applicable

# FMC Graslan™ Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

Flash point : Not applicable

Flammability (liquids) : Not applicable

Self-ignition : not determined

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower

flammability limit

not determined

Vapour pressure : not determined

Density : not determined

Solubility(ies)

Water solubility : dispersible

Partition coefficient: n-

octanol/water

: Not applicable

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

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

Reactivity : No decomposition if stored and applied as directed.

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

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

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

Incompatible materials : Strong oxidizing agents

Strong acids and strong bases

Hazardous decomposition

products

Stable under recommended storage conditions.

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

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

### **Acute toxicity**

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

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

**Components:** 

tebuthiuron (ISO):

Acute oral toxicity : LD50 (Rat, female): 387 mg/kg

LD50 (Rat, male): 477 mg/kg

Acute inhalation toxicity : LC50 (Rat): 3.7 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): > 5,000 mg/kg

Quartz (SiO2):

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

Acute inhalation toxicity : LC50 (Rat): > 5.01 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 436

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

#### Skin corrosion/irritation

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

### **Components:**

tebuthiuron (ISO):

Species : Rabbit

Result : No skin irritation

### Quartz (SiO2):

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Remarks : Based on data from similar materials

### Serious eye damage/eye irritation

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

## **Components:**

### tebuthiuron (ISO):

Species : Rabbit

Result : No eye irritation

Quartz (SiO2):

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Remarks : Based on data from similar materials

### 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.

## **Components:**

#### tebuthiuron (ISO):

Species : Guinea pig

Result : Does not cause skin sensitisation.

Quartz (SiO2):

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.
Remarks : Based on data from similar materials

### **Chronic toxicity**

#### Germ cell mutagenicity

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

#### **Components:**

### tebuthiuron (ISO):

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

Quartz (SiO2):

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Rat

Method: OECD Test Guideline 474

Result: negative

Remarks: Based on data from similar materials

Carcinogenicity

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

**Product:** 

Carcinogenicity - Assess-

ment

This product contains crystalline silica (quartz) in a nonrespirable form. Inhalation of crystalline silica is unlikely to

occur from exposure to this product.

Weight of evidence does not support classification as a car-

cinogen

**Components:** 

tebuthiuron (ISO):

Species : Rat
Application Route : Oral
Exposure time : 2 Years
Dose : 80 mg/kg
Result : negative

Carcinogenicity - Assess-

ment

Animal testing did not show any carcinogenic effects.

Quartz (SiO2):

Carcinogenicity - Assess-

ment

Human carcinogen.

Reproductive toxicity

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

**Components:** 

tebuthiuron (ISO):

Effects on fertility : Species: Rat

Application Route: Oral

Result: negative

Effects on foetal develop-

ment

Species: Rabbit

**Application Route: Oral** 

Result: negative

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

STOT - single exposure

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

STOT - repeated exposure

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

**Product:** 

Assessment : This product contains crystalline silica (quartz) in a non-

respirable form. Inhalation of crystalline silica is unlikely to

occur from exposure to this product.

The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

**Components:** 

Quartz (SiO2):

Exposure routes : Inhalation Target Organs : Lungs

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 1.

Exposure routes : Inhalation

Target Organs : Immune system, Kidney

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

Repeated dose toxicity

**Components:** 

Quartz (SiO2):

Species : Rat

LOAEC : 0.0025 mg/l
Application Route : Inhalation
Exposure time : 90 day

Method : OECD Test Guideline 413

Target Organs : Lungs

Remarks : Based on data from similar materials

**Aspiration toxicity** 

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

**Further information** 

**Product:** 

Remarks : No data available

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

### **Components:**

tebuthiuron (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 144 mg/l

Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): > 160 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 112 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 297 mg/l

End point: Immobilization Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (algae)): 0.102 mg/l

Exposure time: 96 h

EC50 (Pseudokirchneriella subcapitata (algae)): 0.05 mg/l

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Anas platyrhynchos (Mallard duck)): > 500 mg/kg

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

Quartz (SiO2):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 10,000 mg/l

Exposure time: 72 h

## Persistence and degradability

**Components:** 

Quartz (SiO2):

Biodegradability : Result: Not biodegradable

Bioaccumulative potential

**Components:** 

tebuthiuron (ISO):

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: 1.82 (20 °C)

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

Quartz (SiO2):

Bioaccumulation : Remarks: Does not bioaccumulate.

**Mobility in soil**No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

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

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

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

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

### **International Regulations**

**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Tebuthiuron)

Class : 9

Subsidiary risk : ENVIRONM.

Packing group : III

Labels : 9 (ENVIRONM.)

Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3077

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

(Tebuthiuron)

956

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen- : 956

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Tebuthiuron)

Class : 9

Packing group : III Labels : 9

EmS Code : F-A, S-F Marine pollutant : yes

Remarks : Environmentally hazardous substances/Marine Pollutants in

single or combination packaging containing a net quantity per single or inner packaging of 5 kg or less for solids, or having a net quantity per single or inner packaging of 5 L or less for liquids may be transported as non-dangerous goods as provided in special provision A197 of the IATA and section

2.10.2.7 of IMDG code.

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

Not applicable for product as supplied.

## **National Regulations**

**ADG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Tebuthiuron)

Class : 9
Packing group : III
Labels : 9
Hazchem Code : 2Z
Environmentally hazardous : yes

Remarks : Environmentally hazardous substances meeting the descrip-

tions of UN 3077 or UN 3082 are not subject to the ADG Code when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg / liters, or IBCs

#### 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**

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

Therapeutic Goods (Poisons : Schedule 6 (Please use the original publication to check for

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

Standard) Instrument specific uses, specific conditions or threshold limits that might

apply for this chemical)

APVMA Code: 64267

Prohibition/Licensing Requirements : Quartz (SiO2)

Refer to model WHS Act and Regulations for prohibition, authorisation

and restricted use.

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

TCSI : On the inventory, or 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.

tebuthiuron (ISO)

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

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

KECI: On the inventory, or 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

## **SECTION 16: ANY OTHER RELEVANT INFORMATION**

Revision Date : 24.09.2024

Date format : dd.mm.yyyy

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

AU OEL : Australia. Workplace Exposure Standards for Airborne Con-

taminants.

ACGIH / TWA : 8-hour, time-weighted average

AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -

## **FMC** Graslan<sup>™</sup> Herbicide



Version Revision Date: SDS Number: Date of last issue: -

1.0 24.09.2024 50002868 Date of first issue: 24.09.2024

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

### **Disclaimer**

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to ensure 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.

AU / 6N