



# SAFETY DATA SHEET



## Graslan Aerial 3D HiLoad Herbicide

Version 1.1      Revision Date: 21.09.2023      SDS Number: 50002568      Date of last issue:-  
Date of first issue: 10.08.2021

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

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
tebuthiuron (ISO)	34014-18-1	>= 10 -< 30
Quartz (SiO <sub>2</sub> )	14808-60-7	>= 10 -< 30

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### 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 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 : Harmful if swallowed.
- Notes to physician : Treat symptomatically.
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### SECTION 5. FIREFIGHTING MEASURES

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- Suitable extinguishing media : Water spray  
Foam  
Dry chemical
- 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 products : Thermal decomposition can lead to release of irritating gases and vapours.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Sulphur oxides
- Specific extinguishing methods : 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 firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Hazchem Code : 2Z
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.  
Avoid breathing dust.
- 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.
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### 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 : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
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.
- Hygiene measures : When using do not eat or drink.
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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 storage stability : No decomposition if stored and applied as directed.

### 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 (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable dust)	0.05 mg/m <sup>3</sup>	AU OEL
Further information: Category 1A (Carc. 1A) Known to have carcinogenic potential for humans				
		TWA (Respirable particulate matter)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH

#### 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

Physical state : solid

Form : pellets

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Colour : grey

pH : 5.9  
(1% solution in water)

: not determined

Flash point : Not applicable

Self-ignition : No data available

Bulk density : 1 g/cm<sup>3</sup> Tap density

Partition coefficient: n-octanol/water : No data available

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

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

Conditions to avoid : Avoid dust formation.  
Heat, flames and sparks.

Incompatible materials : Strong acids  
Strong bases  
Strong oxidizing agents

Hazardous decomposition products : Stable under recommended storage conditions.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: 1,448 mg/kg  
Method: Calculation method

#### **Components:**

**tebuthiuron (ISO):**

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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 inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### **Quartz (SiO<sub>2</sub>):**

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 inhalation 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**

Not classified based on available information.

### **Components:**

#### **tebuthiuron (ISO):**

Species : Rabbit  
Result : No skin irritation

#### **Quartz (SiO<sub>2</sub>):**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on data from similar materials

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

Not classified based on available information.

### **Components:**

#### **tebuthiuron (ISO):**

Species : Rabbit  
Result : No eye irritation

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**Quartz (SiO<sub>2</sub>):**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
Remarks : Based on data from similar materials

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****tebuthiuron (ISO):**

Species : Guinea pig  
Result : Does not cause skin sensitisation.

**Quartz (SiO<sub>2</sub>):**

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**

Not classified based on available information.

**Components:****tebuthiuron (ISO):**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative

**Quartz (SiO<sub>2</sub>):**

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**

Not classified based on available information.

**Product:**

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Carcinogenicity - 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.

### Components:

#### **tebuthiuron (ISO):**

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

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

### **Reproductive toxicity**

Not classified based on available information.

### Components:

#### **tebuthiuron (ISO):**

Effects on fertility : Species: Rat  
Application Route: Oral  
Result: negative

Effects on foetal development : Species: Rabbit  
Application Route: Oral  
Result: negative

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

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### Product:

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

### Components:

#### **Quartz (SiO<sub>2</sub>):**

Exposure routes : Inhalation  
Target Organs : Lungs  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.



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**Repeated dose toxicity****Components:****Quartz (SiO<sub>2</sub>):**

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**

Not classified based on available information.

**Further information****Product:**

Remarks	: No data available
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**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

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### Quartz (SiO<sub>2</sub>):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 10,000 mg/l  
Exposure time: 72 h

### Persistence and degradability

#### Components:

### Quartz (SiO<sub>2</sub>):

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)

### Quartz (SiO<sub>2</sub>):

Bioaccumulation : Remarks: Does not bioaccumulate.

### Mobility in soil

No data available

### 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.

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## 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 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.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

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### 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.)

### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Tebuthiuron)  
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. (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  
Remarks : Environmentally hazardous substances meeting the descrip-

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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.

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## SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform : Schedule 6  
Scheduling of Medicines and  
Poisons

APVMA Approval no.: 90121

Prohibition/Licensing Requirements : Quartz (SiO<sub>2</sub>)  
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

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### SECTION 16. OTHER INFORMATION

Revision Date : 21.09.2023

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 Contaminants.

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 - 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

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