

SAFETY DATA SHEET



Glean herbicide

Version 2.0

Revision Date 13.08.2020

Document no. 130000000092

This SDS adheres to the standards and regulatory requirements of New Zealand and may not meet the regulatory requirements in other countries.

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

Product name : Glean herbicide

Other names : B10045552
DPX-W4189 75WG

Recommended use of the chemical and restriction on use

Recommended use : Herbicide

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

Manufacturer, importer, supplier, representative office

Company : FMC New Zealand Limited
Street address : 6 Clayton Street, Newmarket, Auckland 1023

Telephone : 0800 658080
Telefax : (09)-271-2961

Emergency telephone number : NZ Poisons Information Centre Ph: 0800 764766;
24-hour Medical Emergency: 0800 111174 Transport Emergency: 0800 387668

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Classified as a Dangerous Good according to NZS 5433

HSNO Classification:

9.1A :Aquatic toxicity (Acute or Chronic)
9.2A :Very toxic to the soil environment

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : Very toxic to aquatic life with long lasting effects.

Precautionary statements : Collect spillage.
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical nature : Mixture**Components**

Chemical name	CAS-No.	Concentration
Chlorsulfuron	64902-72-3	75 %
Other Ingredients		25 %

4. FIRST AID MEASURES

Contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if you feel unwell.
 Never give anything by mouth to an unconscious person.
 Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician after significant exposure.
 Take victim immediately to hospital.

Skin contact : Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.

Eye contact : If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist. Take victim immediately to hospital.

Ingestion : Obtain medical attention. Do not induce vomiting without medical advice. If victim is conscious: Rinse mouth with water. Drink 1 or 2 glasses of water.

Most important symptoms/effects, acute and delayed : No information available.

Protection of first-aiders : No information available.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Specific hazards : No information available.

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

Specific extinguishing methods : No information available.

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- Further information** : Prevent fire extinguishing water from contaminating surface water or the ground water system. 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.
(on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.
- Hazchem Code** : 2Z

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Control access to area. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Prevent material from entering sewers, waterways, or low areas.
- Methods and materials for containment and cleaning up** : Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal.
Clean-up methods - large spillage Avoid dust formation. Prevent further leakage or spillage. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.
- Additional advice** : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

- Technical measures/Precautions** : Avoid contact with skin and eyes. Do not breathe dust or spray mist. When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
- Precautions for safe handling** : Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.

Storage

- Suitable storage conditions** : Keep out of the reach of children. Do not store with feed, seeds or foodstuffs. Store in original container. Keep container tightly closed. Keep locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit values are applicable.

- Engineering measures** : Use only with adequate ventilation.

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Biological occupational exposure limits : No information available.

Personal protective equipment

Respiratory protection : None specified.

Hand protection : Material: Waterproof gloves

Eye protection : None specified.

Skin protection : When mixing or applying wear:, Waterproof gloves, hat, overalls, Footwear (shoes, boots).

Hygiene measures : Avoid contact with the skin and the eyes. When using do not eat, drink or smoke. Avoid breathing dust or spray mist. Wash hands and face before breaks and after work.
Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance (Physical state, form, colour, etc.)**

Physical state : solid

Form : solid, dry, free flowing, water dispersible granules

Colour : tan

Odour : slight acrid

Odour Threshold : No information available.

pH : 4.4 - 5.4

Melting point/freezing point

Melting point : Not available for this mixture.

Initial boiling point and boiling range

No information available.

Flash point : No information available.

Evaporation rate : No information available.

Flammability (solid, gas) : No information available.

Upper/lower flammability or explosive limits

Upper explosion limit : No information available.

Lower explosion limit : No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Density

Specific gravity (Relative density) : Not available for this mixture.

Bulk density : 672 kg/m³

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Solubility(ies)

Water solubility : dispersible

Partition coefficient: n-octanol/water

: No information available.

Auto-ignition temperature

No information available.

Decomposition temperature

: No information available.

Viscosity

Viscosity, kinematic : No information available.

Molecular weight

: No information available.

10. STABILITY AND REACTIVITY

Reactivity

: No information available.

Chemical stability

: Stable under normal conditions.No decomposition if stored and applied as directed.

Possibility of hazardous reactions

: Decomposes slowly on exposure to water.

Conditions to avoid

: Exposure to moisture Decomposes slowly on exposure to water. To avoid thermal decomposition, do not overheat. Under severe dusting conditions, this material may form explosive mixtures in air.

Materials to avoid

: None reasonably foreseeable.

Hazardous decomposition products

: No information available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

Glean herbicide : LD50/Rat: > 2,000 mg/kg
The substance or mixture has no acute oral toxicity

Inhalation

Chlorsulfuron : LC50/4 h/Rat(dust/mist): > 5.5 mg/l

Dermal

Glean herbicide : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritation

Glean herbicide : Species: Rabbit
Result: No skin irritation
Minimal effects that do not meet the threshold for classification.

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Serious eye damage/eye irritation

Glean herbicide : Species: Rabbit
Result: No eye irritation
Minimal effects that do not meet the threshold for classification.

Respiratory or skin sensitisation

Glean herbicide : Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Chlorsulfuron : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Chlorsulfuron : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
Target(s):
Leydig cells
A slight increased incidence in tumors was observed in one species, but not in other species.
Not classifiable as a human carcinogen.

Reproductive toxicity

Chlorsulfuron : Reproductive toxicity: No toxicity to reproduction
Teratogenicity: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Specific Target Organ Toxicity

Specific target organ toxicity - repeated exposure

Glean herbicide : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration hazard

No information available.

Other

Chlorsulfuron : Repeated dose toxicity:
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
Inhalation/Rat
Reduced body weight gain, Kidney effects, Spleen effects, Bloody urine, bone marrow changes
Oral/Rat
Reduced body weight gain, altered blood chemistry
Oral/Dog
Abnormal decrease in number of red blood cells

12. ECOLOGICAL INFORMATION

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Ecotoxicity effects

Acute and prolonged toxicity to fish

Chlorsulfuron : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 122 mg/l
 LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 128 mg/l
 LC50/96 h/Cyprinodon variegatus (sheepshead minnow): > 980 mg/l

Toxicity to aquatic plants

Glean herbicide : EC50/72 h/Selenastrum capricornutum (green algae): 0.00024 mg/l

Acute toxicity to aquatic invertebrates

Chlorsulfuron : EC50/48 h/Daphnia magna (Water flea): > 112 mg/l
 LC50/96 h/Americamysis bahia (mysid shrimp): 89 mg/l

Soil Ecotoxicity

Toxicity to soil dwelling organisms

Chlorsulfuron : LC50/14 d/Eisenia fetida (earthworms): > 1,000 mg/kg
 Method: OECD Test Guideline 207
 Information source: Internal study report

Persistence and degradability

Glean herbicide : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation

Glean herbicide : Does not bioaccumulate. Estimation based on data obtained on active ingredient.

Mobility in soil

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.
 Do not reuse empty container.
 Dispose of the product in accordance with label directions.

Contaminated packaging : Do not re-use empty containers.
 Triple rinse containers. Add rinsings to spray tank. If not recycling, burn if circumstances permit otherwise bury in an approved landfill.

14. TRANSPORT INFORMATION

NZS 5433

UN number : 3077
 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (Chlorsulfuron)
 Transport hazard class : 9
 Packing group : III

IMDG

UN number : 3077

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UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Chlorsulfuron)

Transport hazard class : 9

Packing group : III

Marine pollutant : yes

IATA

UN number : 3077

UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Chlorsulfuron)

Transport hazard class : 9

Packing group : III

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification.

15. REGULATORY INFORMATION

HSNO Number : HSR101058

HSNO Controls : E1, E2, E5, E6, E7, E8
I1, I3, I9, I11, I16, I17, I18, I19, I21, I23, I28, I29
P1, P3, P13, P15, PG3
D4, D5, D6, D7, D8
EM1, EM7, EM8, EM11, EM13, AH1
T1, T2, T4, T7
E1, E2, E5, E6, E7
I1, I3, I9, I11, I16, I19, I21, I23, I28, I29
P1, P3, P13, P15, PG3
D4, D5, D6, D7, D8
EM1, EM6, EM7, EM8, EM11, EM12, EM13

ACVM Number: P003096

16. OTHER INFORMATION**References**

SDS Number: 130000000092

Revision Date/Version

Date of first preparation : 03.01.2018

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Version : 2.3

Significant change from previous version is denoted with a double bar.

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