

SAFETY DATA SHEET



DuPont™ Glean® herbicide

Version 2

Revision Date 19.08.2016

Document no. 130000033378

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 : DuPont™ Glean® herbicide

Other names : DPX-W4189 75PX
B12810940

Recommended use of the chemical and restriction on use

Recommended use : Herbicide

Manufacturer, importer, supplier

Company : DuPont (New Zealand) Limited
Street address : Level 1, 14 Ormiston Road, East Tamaki, Auckland 2016
New Zealand
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 : Ecotoxic to 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.
Very toxic to the soil environment.

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

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3. COMPOSITION/INFORMATION ON INGREDIENTS

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.
- Skin contact** : Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. 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.
- 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.
- Storage period: Stable under recommended storage conditions.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

No information available.

Engineering measures : Use only with adequate ventilation.**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.**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** : not determined**pH** : 4.4 - 5.4**Melting point/freezing point**

Melting point : Not available for this mixture.

Initial boiling point and boiling range

Boiling range : Not applicable

Sublimation point : Not available for this mixture.

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.

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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
Solubility(ies)		
Water solubility	:	dispersible
Partition coefficient: n- octanol/water	:	No information available.
Auto-ignition temperature		
Auto-ignition temperature	:	Auto-ignition temperature Not available for this mixture.
Decomposition temperature	:	No information available.
Viscosity		
Viscosity, kinematic	:	No information available.
Molecular weight	:	No information available.
Other data		
Phys-chem data	:	No other data to be specially mentioned.

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.

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11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral

DuPont™ Glean® herbicide : LD50/Rat: > 2,000 mg/kg

Inhalation

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

Dermal

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

Skin corrosion/irritationDuPont™ Glean® herbicide : Species: Rabbit/72 h
Result: No skin irritation
Method: OECD Test Guideline 404
(Data on the product itself)**Serious eye damage/eye irritation**DuPont™ Glean® herbicide : Species: Rabbit/72 h
Result: No eye irritation
Method: OECD Test Guideline 405
(Data on the product itself)**Respiratory or skin sensitisation**DuPont™ Glean® herbicide : Species: Guinea pig
Result: Animal test did not cause sensitization by skin contact.**Germ cell mutagenicity**

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

CarcinogenicityChlorsulfuron : 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

DuPont™ 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.

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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**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

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- : EC50/72 h/Selenastrum capricornutum (green algae): 0.0882 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

Persistence and degradability

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

Bioaccumulation

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- : 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.

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.

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14. TRANSPORT INFORMATION

NZS 5433

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Chlorsulfuron)
Class : 9
Packing group : III

IMDG

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Chlorsulfuron)
Class : 9
Packing group : III
Marine pollutant : yes (Chlorsulfuron)

IATA

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Chlorsulfuron)
Class : 9
Packing group : III

Matters needing attention for transportation : 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 : T1, T2, T4, T7
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, EM6, EM7, EM8, EM11, EM13, AH1

ACVM Number: P003096

16. OTHER INFORMATION

References

SDS Number: 130000033378

Revision Date/Version

Date of first preparation : 15.12.2015
Revision Date : 18.08.2016
Version : 2.0

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Take notice of the directions of use on the label. Before use read DuPont's safety information.

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

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.