

SAFETY DATA SHEET



Harmony 50 SG herbicide

Version 1.0

Revision Date 01.07.2018

Document no. 130000000398

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 : Harmony 50 SG herbicide

Other names : B11646126
DPX-M6316 50SG

Recommended use of the chemical and restriction on use

Recommended use : Herbicide

Manufacturer, importer, supplier

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 : 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

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Components

Chemical name	CAS-No.	Concentration
Thifensulfuron methyl	79277-27-3	50 %
Other Ingredients		50 %

4. FIRST AID MEASURES

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 : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.
- Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Ingestion : Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a poison information centre or doctor for treatment advice.
- Most important symptoms/effects, acute and delayed : No information available.
- Protection of first-aiders : No information available.
- Notes to physician : No information available.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Specific hazards : Under severe dusting conditions, this material may form explosive mixtures in air.
- 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 : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal. For minor spills, leaks, etc., follow all precautions indicated on the label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.
- 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 : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.
- Precautions for safe handling : No information available.

Storage

- Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No information available.

Engineering measures : Ensure adequate ventilation.

Biological occupational exposure limits : No information available.

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Personal protective equipment

- Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
- Hand protection : Material: Protective gloves
- Eye protection : Wear protective eyewear to prevent contact with this substance.
- Skin protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.
- Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash all protective clothing after use.
- Protective measures : All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.
End users of this product should follow label instructions for personal protection when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

- Physical state : solid
Form : granules
Colour : light brown

Odour : mild

Odour Threshold : No information available.

pH : 8.7 - 9.7

Melting point/freezing point

Melting point/range : ca.182 °C

Initial boiling point and boiling range

No information available.

Flash point : Not applicable

Evaporation rate : No information available.

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

Upper/lower flammability or explosive limits

- Upper explosion limit : No information available.
Lower explosion limit : 0.1 - 0.25 g/l

Vapour pressure : No information available.

Vapour density : No information available.

Density

Bulk density : 696 kg/m³

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packed

Solubility(ies)

Water solubility : soluble

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 at normal temperatures and storage conditions.

Possibility of hazardous reactions : Polymerization will not occur.

Conditions to avoid : None reasonably foreseeable.

Materials to avoid : No materials to be especially mentioned.

Hazardous decomposition products : No information available.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral

Harmony 50 SG herbicide : LD50/Rat: > 5,000 mg/kg

Inhalation

Harmony 50 SG herbicide : LC50/4 h/Rat(dust/mist): > 5.3 mg/l

Dermal

Harmony 50 SG herbicide : LD50/Rabbit: > 5,000 mg/kg

Skin corrosion/irritation

Harmony 50 SG herbicide : Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Harmony 50 SG herbicide : Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

Harmony 50 SG herbicide : Species: Guinea pig
Result: Animal test did not cause sensitization by skin contact.

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Germ cell mutagenicity Thifensulfuron methyl	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
Carcinogenicity Thifensulfuron methyl	:	Animal testing did not show any carcinogenic effects.
Reproductive toxicity Thifensulfuron methyl	:	Reproductive toxicity: No toxicity to reproduction Animal testing showed no reproductive toxicity. Teratogenicity: Did not show teratogenic effects in animal experiments. 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 - single exposure		
Thifensulfuron methyl	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific target organ toxicity - repeated exposure		
Harmony 50 SG herbicide	:	Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.
Aspiration hazard Thifensulfuron methyl	:	No aspiration toxicity classification
Other Harmony 50 SG herbicide	:	Information given is based on data on the components and the toxicology of similar products.

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Acute and prolonged toxicity to fish

Harmony 50 SG herbicide : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 120 mg/l

Toxicity to aquatic plants

Harmony 50 SG herbicide : EbC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.605 mg/l
EC50/14 d/Lemna gibba (duckweed): 0.00130 mg/l

Acute toxicity to aquatic invertebrates

Harmony 50 SG herbicide : EC50/48 h/Daphnia magna (Water flea): > 120 mg/l

Chronic toxicity to aquatic Invertebrates

Thifensulfuron methyl : NOEC/28 d/Americamysis bahia (mysid shrimp): 7.93 mg/l

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in soil

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No information available.

Other adverse effects

Harmony 50 SG herbicide : See product label for additional application instructions relating to environmental precautions.

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.

Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION

NZS 5433

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

IMDG

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

IATA

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Thifensulfuron-methyl)
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 : HSR001742

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

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ACVM Number : P7423

16. OTHER INFORMATION

References

SDS Number: 130000000398

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Date of first preparation : 03.01.2018

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Version : 2.1

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

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