



Infosafe No™ 3NUOU	Issue Date : July 2012	ISSUED by NUFARMNZ
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Product Name **PRIMIERA®**

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

Product Name PRIMIERA®
Product Code 00550
Product Use A selective herbicide for the control of broadleaf weeds in grain and silage maize.
Company Name Nufarm NZ
Address 6 Manu Street, Otahuhu
Auckland 2024 New Zealand
Emergency Tel. 0800 651 911
Telephone Number/Fax Tel: 0-9-270 4150
Fax: 0-9-270 4159
Product Type Herbicide
Email info@nz.nufarm.com
Other Information This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Mesotrione	104206-82-8	480 g/L

3. HAZARDS IDENTIFICATION

Human Health Effects Harmful if absorbed through skin.
Reproductive Toxicity Not teratogenic. This material will not produce adverse effects on fertility.
Carcinogenicity Not listed as carcinogenic.
Chronic Effects Chronic feeding studies on animals do not indicate any cumulative toxicity.
Ingestion May be harmful if swallowed.
Skin Skin absorption: Contact with this material incidental to normal handling will not cause intoxication. However, prolonged repeated contact may result in this material being absorbed in harmful amounts.
Other Information 6.3B skin irritant, 6.4A eye irritant, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant,
TOXICITY
Harmful - may cause skin and eye irritation. May cause organ damage from repeated oral exposure at high doses.
ECOTOXIC
Very toxic to aquatic organisms with long-lasting effects.
Selective herbicide - very toxic to some plant species.

4. FIRST AID MEASURES

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.

Inhalation Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

Ingestion Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.

Skin Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.



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Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Do not enter any enclosed area without full protective equipment, including self-contained breathing apparatus. Water fog, foam, carbon dioxide or dry chemical.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems. Avoid using large volumes of water which could spread the product. Contain and isolate runoff and debris for correct disposal.
Hazardous Combustion Products	Normal combustion forms carbon dioxide and water vapour and may produce oxides of sulphur and nitrogen.
Protective Equipment	Full protective clothing and self-contained breathing apparatus.
Flash Point	Does not flash
Explosion Data	Not explosive
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent contamination of soil and water.

7. HANDLING AND STORAGE

Handling	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when it is applied in a wide dispersive manner, or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more of PRIMIERA is applied within 24 hours. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. This product must not be applied onto or into water.
Storage	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of PRIMIERA require secondary containment and are subject to signage, and more than 100L require emergency response plans.
Other Information	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No WES or TEL exposure limits have been specifically assigned for this product WES TWA for ethylene glycol = Ceiling 50ppm (127mg/m ³) EELsurface deposition = 0.0037 mg/m ² for mesotrione in the terrestrial environment EELsoil = 0.0001 mg/kg dw soil EELwater = 0.0008 mg/L
Personal Protective Equipment	When mixing or applying wear full protective clothing: safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots. If risk of inhalation of spray mist exists, wear combined organic vapour/particulate respirator. If using a respirator' ensure that the cartridges are correct for the potential air contamination and are in good working order.
Eng. Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown
Odour	Characteristic
Melting Point	165°C for mesotrione
Solubility in Water	2.2g/L at (pH 4.8) @ 20°C for mesotrione
Specific Gravity (H₂O=1)	1.58g/ml
pH Value	4.5
Vapour Pressure	5.69 x 10 ⁻³ mPa @ 20°C for mesotrione
Flash Point	Does not flash
Explosion Properties	Not explosive
Other Information	(SC) Suspension Concentrate

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of handling and storage. Stable to hydrolysis (pH 4-9)
Hazardous Polymerization	Hazardous polymerisation will not occur.
Materials to Avoid	Strong oxidizing agents.
Conditions to Avoid	Temperature extremes

11. TOXICOLOGICAL INFORMATION

Ingestion	May be harmful if swallowed.
Skin	Skin absorption: Contact with this material incidental to normal handling will not cause intoxication. However, prolonged repeated contact may result in this material being absorbed in harmful amounts.
Chronic Effects	Chronic feeding studies on animals do not indicate any cumulative toxicity.
Reproductive Toxicity	Not teratogenic. This material will not produce adverse effects on fertility.
Carcinogenicity	Not listed as carcinogenic.
Acute Toxicity - Oral	LD50 (rat) >5,000mg/kg for mesotrione
Acute Toxicity - Dermal	Percutaneous LD50 (rat) >2,000mg/kg for mesotrione
Acute Toxicity - Inhalation	LC50(4h) for male and female rats >5mg/L for mesotrione

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Eye Irritation	Mild irritant (rabbits).
Skin Irritation	May cause skin irritation.
Skin Sensitisation	Not sensitising (guinea pig).
Subchronic/Chronic Toxicity	For mesotrione: NOEL: (multi-generation study) for mice 2mg/kg bw daily; (2y) for rats 7.7 mg/kg bw daily. Non-teratogenic in rats and rabbits. Non-genotoxic as demonstrated in vivo.
Other Information	ADE for Mesotrione: 0.01 mg/kg bw day ADI: (EU) 0.001mg/kg body weight/day

12. ECOLOGICAL INFORMATION

Acute Toxicity - Fish	LC50 (96h) bluegill sunfish and rainbow trout >120mg/L for mesotrione
Acute Toxicity - Daphnia	LC50/EC50 (48h, static) >900mg/L for mesotrione
Acute Toxicity - Algae	LC50/EC50 (120h, static) for Selenastrum capricornutum 4.5mg/L for mesotrione
Acute Toxicity - Other Organisms	Birds: Oral LD50 bobwhite quail >2,000mg/kg for mesotrione Bees: LD50 (oral) >11µg/bee; (contact) >9.1µg/bee, based on 100g/L formulation Worms: NOEL >1,000mg/kg for mesotrione
Environmental Fate	For mesotrione: Soil/Environment: DT50 (lab., anaerobic) 4d (first order); DT90 12d. DT50 (lab., aerobic) 6-27d (17 soils); DT90 20-89 d. Soil photolysis c. 23d. DT50 (field) 3-7 d (6 sites); DT90 36-78 d. Degradation is faster at higher pH values. Koc 19-141 (seven soils, pH 5.1 - 8.2; o.c. 0.53 - 3.31%); Koc 29-390 (13 soils, pH 4.5 - 7.5, o.c. 0.6 - 2.2%); overall mean Koc 109; sorption decreases as pH increases.

13. DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. TRANSPORT INFORMATION

U.N. Number	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. 3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Mesotrione, 48%)
DG Class	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry more than 1L of PRIMIERA on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. REGULATORY INFORMATION

Hazard Rating Systems	NFPA/HMIS: 2-1-0
Hazard Category	ECOTOXIC



Material Safety Data Sheet

infosafe
CS: 1.7.2

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National Legislation Registered pursuant to the ACVM Act 1997, No. P8284
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR100665
See www.epa.govt.nz for approval controls.

UK Legislation info@nz.nufarm.com

16. OTHER INFORMATION

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

SDS History N/A - First issue

Hazard Category ECOTOXIC
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