

Infosafe No™ 3NUOU	Issue Date : August 2017	ISSUED by NUFARMNZ
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 Product Name **PRIMIERA®**

1. Identification

GHS Product Identifier	PRIMIERA®
Product Code	00550
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nz.nufarm.com
Recommended use of the chemical and restrictions on use	A selective herbicide for the control of broadleaf weeds in grain and silage maize.
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. Hazard Identification

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.
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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Mesotrione	104206-82-8	480 g/L

4. First-aid measures

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.
Eye contact	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

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--------------------	--------------------------	--------------------

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Fire Fighting Measures	Do not enter any enclosed area without full protective equipment, including self-contained breathing apparatus.
Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion	Normal combustion forms carbon dioxide and water vapour and may produce oxides of sulphur and nitrogen.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
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.
Hazchem Code	2X
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

Precautions for Safe 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.
Conditions for safe storage, including any incompatibilities	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.

8. Exposure controls/personal protection

Occupational exposure limit values	No WES or TEL exposure limits have been specifically assigned for this product WES TWA for ethylene glycol = Ceiling 50ppm (127mg/m3) EELsurface deposition = 0.0037 mg/m2 for mesotrione in the terrestrial environment EELsoil = 0.0001 mg/kg dw soil EELwater = 0.0008 mg/L
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--------------------	--------------------------	--------------------

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Appropriate engineering controls Handle in well ventilated areas, generally natural ventilation is adequate.

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.

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

Form	Liquid
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	1.58g/ml
pH	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

Chemical Stability Stable under normal conditions of handling and storage.

Stable to hydrolysis (pH 4-9)

Conditions to Avoid Temperature extremes

Incompatible Materials Strong oxidizing agents.

Hazardous Polymerization Hazardous polymerisation will not occur.

11. Toxicological Information

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 >4.8mg/L for mesotrione

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.

Skin Sensitisation Not sensitising (guinea pig).

Carcinogenicity Not listed as carcinogenic.

Reproductive Toxicity Not teratogenic. This material will not produce adverse effects on fertility.

Chronic Effects Chronic feeding studies on animals do not indicate any cumulative toxicity.

Serious eye damage/irritation Mild irritant (rabbits).

Skin corrosion/irritation May cause skin irritation.

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Subchronic/Chronic Toxicity	For mesotrione: NOEL: (multi-generation study) for mice 2mg/kg bw daily; (2y) for rats 7.7 mg/kg bw daily.
Other Information	Non-teratogenic in rats and rabbits. Non-genotoxic as demonstrated in vivo. ADE for Mesotrione: 0.01 mg/kg bw day ADI: (EU) 0.001mg/kg body weight/day

12. Ecological information

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.
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

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

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Mesotrione, 48%)
Transport hazard class(es)	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

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P8284 See www.foodsafety.govt.nz for registration conditions
Hazard Rating Systems	Approved pursuant to the HSNO Act 1996, Approval Code HSR100665 See www.epa.govt.nz for approval controls. NFPA/HMIS: 2-1-0



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NUOU	Issue Date : August 2017	ISSUED by NUFARMNZ
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Hazard Category ECOTOXIC

16. Other Information

Date of preparation or last revision of SDS July 2012

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
Revisions Highlighted 5 yearly review carried out. Various changes and updates made to document.

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