

Infosafe No™ 3NV91 Issue Date : July 2024 ISSUED by NUFARMNZ

Product Name **PRIMIERA® 480SC**

Section 1 - Identification

Product Identifier	PRIMIERA® 480SC
Product Code	00563
Product Type	Herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	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.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Eye irritation Category 2 Specific target organ toxicity (repeated exposure) Category 2 Hazardous to soil organisms Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H319 Causes serious eye irritation H373 May cause damage to organs through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects H421 Very toxic to the soil environment
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.
Precautionary Statement – Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. P391 Collect spillage.
Precautionary Statement – Storage	P405 Store locked up.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

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Section 3 - Composition and Information on Ingredients

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

Section 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	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.

Section 5 - Firefighting Measures

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.
Products	
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
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and 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.

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Environmental Precautions	<p>Prevent from entering drains, waterways or sewers.</p> <p>This product is a herbicide and spills can damage crops, pastures and desirable vegetation.</p> <p>Prevent contamination of soil and water.</p>
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Section 7 - Handling and Storage

Precautions for Safe Handling	<p>The person mixing or applying PRIMIERA 480SC must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.</p> <p>Avoid skin and eye contact and inhalation of spray mist.</p> <p>This product must not be applied onto or into water.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>CERTIFIED HANDLER: Is not required.</p> <p>TRACKING: Is not required.</p> <p>RECORD KEEPING: Records of use as described in NZ 8409 Management of Agrichemicals must be kept if 3 litres or more of PRIMIERA 480SC is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.</p>
Conditions for safe storage, including any incompatibilities	<p>Keep out of reach of children.</p> <p>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.</p> <p>Stores containing 100L of PRIMIERA require secondary containment and are subject to signage, and more than 100L require emergency response plans.</p>
Other Information	<p>Always read the label and any attached leaflet before use.</p> <p>Aggregate Storage Volume Thresholds:</p> <p>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.</p>

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	<p>No WES or TEL exposure limits have been specifically assigned for this product</p> <p>WES TWA for ethylene glycol = Ceiling 50ppm (127mg/m3)</p> <p>EELsurface deposition = 0.0037 mg/m2 for mesotrione in the terrestrial environment</p> <p>EELsoil = 0.0001 mg/kg dw soil</p> <p>EELwater = 0.0008 mg/L</p>
Appropriate Engineering Controls	<p>Handle in well ventilated areas, generally natural ventilation is adequate.</p>
Personal Protective Equipment	<p>When mixing or applying wear full protective clothing: safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.</p> <p>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.</p>
Hygiene Measures	<p>Do not eat, drink or smoke while using.</p> <p>Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.</p>

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Brown.
Odour	Characteristic.

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Decomposition Temperature	Information is not available.
Melting Point	165°C for active ingredient mesotrione.
Solubility in Water	2.2g/L (pH 4.8, 20°C) for active ingredient mesotrione.
Specific Gravity	1.58g/ml
pH	4.5
Vapour Pressure	<5.69 x 10 ⁻³ mPa (20°C) for active ingredient mesotrione.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow logP = 0.11 (unbuffered water) for active ingredient mesotrione.
Flash Point	Does not flash
Flammability	Information is not available.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Explosion Properties	Not explosive
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(SC) Suspension Concentrate

Section 10 - Stability and Reactivity

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

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >5,000mg/kg for active ingredient mesotrione.
Acute Toxicity - Inhalation	LC50 (4h) for male and female rats >4.75mg/L for active ingredient mesotrione.
Acute Toxicity - Dermal	Percutaneous LD50 (male and female rats) >2,000mg/kg for active ingredient mesotrione.
Skin Corrosion/Irritation	Mild irritant to skin (rabbits) for active ingredient mesotrione.
Serious Eye Damage/Irritation	Causes serious eye irritation.
Skin Sensitisation	Not sensitising (guinea pig) for active ingredient mesotrione.
Germ Cell Mutagenicity	Information is not available.

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Carcinogenicity	Information is not available.
Reproductive Toxicity	Not teratogenic. This material will not produce adverse effects on fertility.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	May cause damage to organs through prolonged or repeated oral exposure.
Aspiration Hazard	Information is not available.
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.
Chronic Effects	Chronic feeding studies on animals do not indicate any cumulative toxicity.
Other Information	The Australian Acceptable Daily Intake (ADI) for mesotrione for a human is 0.5 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 50 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', Edition 2/2024).

Section 12 - Ecological Information

Persistence and Degradability	In aerobobic soil, mesotrione dissipates rapidly, mainly due to microbial activity, and is extensively mineralised. Degradation is faster at higher pH values.
Mobility	Information is not available.
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.
Bioaccumulative Potential	Information is not available.
Acute Toxicity - Fish	LC50 (96h) bluegill sunfish and rainbow trout >120mg/L for active ingredient mesotrione.
Acute Toxicity - Daphnia	LC50/EC50 (48h, static) >900mg/L for active ingredient mesotrione.
Acute Toxicity - Algae	EC50 (120h) for Pseudokirchneriella subcapitata is 3.5mg/L for active ingredient mesotrione.
Acute Toxicity - Other Organisms	Birds: oral LD50 bobwhite quail >2,000mg/kg for active ingredient mesotrione. Bees: LD50 (oral) >11µg/bee; (contact) >100µg/bee, based on 100g/L formulation for active ingredient mesotrione. Worms: LD50 (14d) >2,000mg/kg for active ingredient mesotrione.

Section 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.

Section 14 - Transport Information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (mesotrione)
Hazard Class	9

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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.

Section 15 - Regulatory Information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P10159 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.
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Section 16 - Any Other Relevant 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
Revisions Highlighted	1st issued version. ...End Of MSDS...

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