

Infosafe No™ 3NU8G	Issue Date : March 2019	ISSUED by NUFARM
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 Product Name **TRIMEC®**

1. Identification

GHS Product Identifier	TRIMEC®
Product Code	00629
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
Email	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	A selective herbicide for the control of a wide range of broadleaf weeds in wheat, barley, oats and ryegrass seed crops.
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

Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H312 Harmful in contact with skin. H313 May be harmful in contact with skin. H316 Causes mild skin irritation. H318 Causes serious eye damage. H332 Harmful if inhaled. H372 Causes damage to liver or kidneys through prolonged or repeated exposure. H400 Very toxic to aquatic life. H421 Very toxic to the soil environment. H433 Harmful to terrestrial vertebrates.
General Precautionary Statement (s)	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)	Exclamation mark, Health hazard, Corrosion, Environment,



Precautionary statement – Prevention	P260 Do not breathe mist/vapours/spray. P264 Wash face and hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P363 Wash contaminated clothing before reuse. P391 Collect spillage.

Infosafe No™ 3NU8G	Issue Date : March 2019	ISSUED by NUFARM
--------------------	-------------------------	------------------

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Precautionary statement – Disposal P501 Dispose of contents/container only by using according to the label, or at an appropriate landfill.

Other Information 6.1D acute toxicant, 6.3B skin irritant, 6.5A sensitiser, 6.5B sensitiser, 6.8B reproductive or developmental toxicant, 6.9A target organ toxicant, 8.3A eye corrosive, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant.
Selective herbicide -Very toxic to some plant species.

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Mecoprop	7085-19-0	600 g/L
	MCPA	94-74-6	150 g/L
	Dicamba	1918-00-9	18.7 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. Do not scrub the skin.

Eye contact Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance.

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

Suitable extinguishing media Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products On burning will emit toxic fumes.

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.

Specific hazards arising from the chemical Considered low risk due to water content, however upon evaporation of water the product is combustible.

Hazchem Code 2Z

Decomposition Temp. Data not available.

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.

Infosafe No™ 3NU8G	Issue Date : March 2019	ISSUED by NUFARM
--------------------	-------------------------	------------------

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Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling The person mixing or applying this product must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. For more information refer to the Hazardous Substances (Hazardous Property Controls) Notice 2017. 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.

Avoid skin and eye contact and inhalation of spray mist.

CERTIFIED HANDLER: Is not required.

TRACKING: Is not required.

RECORD KEEPING: Records of use as described in the NZS 8409 Management of Agrichemicals must be kept.

BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

Conditions for safe storage, including any incompatibilities 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 TRIMEC require secondary containment and are subject to signage, and more than 100L require emergency response plans.

Keep out of reach of children.

Corrosiveness Mecoprop technical is corrosive to metals in the presence of moisture.

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 exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

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

Personal Protective Equipment When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.

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 Dark brown liquid

Odour Phenolic odour

Decomposition Data not available.

Temperature

Melting Point Property does not apply.

Boiling Point Data not available.

Solubility in Water Soluble

Specific Gravity 1.27

pH 8.5 - 11.0

Vapour Pressure Data not available.

Vapour Density (Air=1) Data not available.

Infosafe No™ 3NU8G	Issue Date : March 2019	ISSUED by NUFARM
--------------------	-------------------------	------------------

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Partition Coefficient: n-octanol/water	Kow logP Mecoprop-P = 0.02 (pH 7) MCPA = -0.71 (pH 7) Dicamba = -1.88 (pH 6.8)
Flash Point	Not applicable.
Flammability	Not flammable
Auto-Ignition Temperature	Not applicable.
Flammable Limits - Lower	Not applicable.
Flammable Limits - Upper	Not applicable.
Kinematic Viscosity	Data not available.
Other Information	(SL) Soluble concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Avoid strong acid or alkali. Avoid oxidising agents. Under adverse conditions, the concentrate may react strongly with powerful oxidising agents.
Incompatible Materials	Corrosive to iron. Reaction of the concentrate or spray mix with acids will precipitate solid actives and largely de-activate the product and cause blockages in spray equipment.

11. Toxicological Information

Toxicology Information	No specific toxicological data is available for this product. Data below is for constituents.
Acute Toxicity - Oral	LD50 (rat) 930-1166 mg/kg for Mecoprop LD50 (rat) 962-1470 mg/kg for MCPA LD50 (rat) 1707 mg/kg for Dicamba
Acute Toxicity - Dermal	LD50 (rabbit) 900 mg/kg for mecoprop
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >12.5 mg/l for mecoprop LC50 (male rat) (4hr) 4.46 mg/l for dicamba
Ingestion	Harmful if swallowed.
Inhalation	Harmful by inhalation. May cause sensitisation by repeated inhalation.
Respiratory sensitisation	Not classified.
Skin Sensitisation	Not classified.
Germ cell mutagenicity	Data not available.
Reproductive Toxicity	Not classified.
STOT-repeated exposure	May cause liver or kidney damage from repeated oral or inhalation exposure at high doses.
Aspiration Hazard	Not classified.
Serious eye damage/irritation	This product is corrosive and causes serious eye damage.
Respiratory Irritation	Not applicable.
Skin corrosion/irritation	May cause mild skin irritation.
Other Information	MCPA: Animal tests have shown the liver and kidneys to be adversely affected after prolonged administration of large doses of MCPA. Repeated or prolonged administration of MCPA may result in an increased susceptibility to infection. No teratogenic nor carcinogenic activity has been detected. Dicamba: Rats and dogs administered 25mg/kg/bw of dicamba for 2 years produced no observable effects on survival, body weight, food consumption, organ weights, blood or tissue changes.

Infosafe No™ 3NU8G	Issue Date : March 2019	ISSUED by NUFARM
--------------------	-------------------------	------------------

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Dicamba in a three-generation reproduction study in rats did not affect reproduction.

12. Ecological information

Persistence and degradability Dicamba is not readily biodegradable.

Mobility Mecoprop: Soil DT50 = 7-13 days
MCPA: Soil DT50 = < 7 days after initial lag phase.
Dicamba: Soil DT50 = < 14 days.

Bioaccumulative Potential Risk of bioaccumulation in an aquatic species is low.

Other Adverse Effects Dicamba: May cause long-term adverse effects in the aquatic environment.

Acute Toxicity - Fish Mecoprop: LC50 (96h) Rainbow trout = 150-240mg/L, Bluegill sunfish = >100mg/L
MCPA: LC50 (96h) Rainbow trout = 232mg/L
Dicamba: LC50 (96h) Bluegill sunfish = 135mg/L

Acute Toxicity - Daphnia Mecoprop: EC50 (48h) Daphnia magna = 420mg/L
Dicamba: EC50 (48h) Daphnia magna = 120.7mg/L

Acute Toxicity - Algae MCPA: EC50 (96h) Navicula pelliculosa (Algae) 0.21mg/L
Dicamba: EC50 (5d) Blue-green algae 0.061mg/L

Acute Toxicity - Other Organisms Mecoprop:
Oral LD50 Bobwhite quail 500-1000mg/kg
Oral LD50 Bee >0.01mg/bee (not toxic to bees)
Contact LD50 Bee >0.10mg/bee
MCPA:
Oral LD50 Bobwhite quail 377mg/kg
Oral LD50 Bee >0.02mg/bee
Dicamba:
Oral LD50 Mallard duck 1373mg/kg
Oral LD50 Bee >0.1mg/kg (Not toxic to bees)

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 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. - (MCPA 15%, dicamba 1.87%)

Transport hazard class(es) 9

Hazchem Code 2Z

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 this product 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



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 6 of 6

Infosafe No™ 3NU8G	Issue Date : March 2019	ISSUED by NUFARM
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National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P3253 See www.foodsafety.govt.nz for registration conditions.
Hazard Rating	Approved pursuant to the HSNO Act 1996, Approval Code HSR000348 See www.epa.govt.nz for approval controls.
Systems	NFPA/HMIS: 2-0-1

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
Revisions Highlighted	SDS reviewed to include GHS requirements.
Other Information	Supersedes SDS issued July 2015 ...End Of MSDS...

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