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Infosafe No™ 3NV4B

Issue Date : January 2020

ISSUED by NUFARM

Product Name **DEBUT™**

1. Identification	
GHS Product	DEBUT™
Identifier Product Code	00670
Product Type	Herbicide
Company Name	Nufarm NZ
Address Telephone/Fax Number Emergency phone number	6 Manu Street, Otahuhu Auckland 2024 New Zealand Tel: 0-9-270 4150 0800 651 911
Email	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use Other Information	pasture. 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 Identifi	cation
Signal Word (s)	DANGER
Hazard Statement (s) General Precautionary Statement (s)	 H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment. H432 Toxic to terrestrial vertebrates. H443 Harmful to terrestrial invertebrates. 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, Corrosion, Health hazard, Environment,

8 ()	$\land \land \land \land$
Precautionary statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace.
Precautionary statement – Response	P280 Wear protective gloves, clothing, eye and face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P332+P313 If skin irritation occurs: Get medical advice/attention.



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	P363 Wash contaminated	alothing bofo	ro. rougo	
	P391 Collect spillage.	croching bero.	le leuse.	
Precautionary	P501 Dispose of contents only by using according to the label, or at an			
statement – Disposal	approved landfill.			
Other Information	6.1D acute toxicant,	6.3B skin irr	itant, 6.5B sensitiser, 6.9A target	
	5	-	, 9.1B aquatic toxicant, 9.2A soil	
	-	trial vertebra	ate toxicant, 9.4C terrestrial	
	invertebrate toxicant,			
3. Composition/in	formation on ingredients			
Chemical	Liquid			
Characterization				
Ingredients	Name	CAS	Proportion	
	2,4-DB (present as the dimethylamine salt)	94-82-6	500 g/L	
	Other ingredients		10-30 %	
	(considered			
	non-hazardous)			
	Hydroxyethylidene	Proprietary	0-15 %	
	diphosphonic acid Water		Remainder	
·			Kemaindei	
4. First-aid measu	ires			
First Aid Measures			ons 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. Use mouth-t	o-nose rather	than mouth-to mouth. Obtain medical	
Inhalation		air. Lay do	wn and keep warm and rested. If breathing	
			way is clear and apply resuscitation.	
Incostion	Seek medical assistance	-	nconscious person. If swallowed do NOT	
Ingestion			t the National Poisons Centre (0800 764	
	766). Seek medical ass	•		
Skin	Immediately flush body and clothes with large amounts of water. Remove			
			Wash affected areas with soap and water.	
E	If a large area is affe			
Eye contact	necessary.	of water for	15 minutes holding eyelids open if	
	Remove contact lenses,	if present and	d easy to do.	
		-	e are no immediate symptoms.	
First Aid Facilities			material should be equipped with an	
	eyewash facility and sa	fety shower.		
Advice to Doctor	Treat symptomatically.			
5. Fire-fighting m	easures			
Suitable	If involved in a fire,	the product w	ill not burn. Choose extinguishing media	
extinguishing media	to suit the burning mat	-		
Hazards from	Non-combustible.			
Combustion		, it will emi	t carbon monoxide, phosgene and possibly	
Products	oxides of phosphorous.			

Special ProtectiveFull protective clothing and self-contained breathing apparatus.Equipment for fire

Specific MethodsKeep up wind.Do not allow washings to reach sewage or effluent systems.Hazchem Code2ZDecomposition Temp.Data not available.Other InformationLocation Certificate: Not applicable

Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

fighters



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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.
7. Handling and st	torage
Precautions for Safe Handling	The person mixing or applying DEBUT must be a 'Qualified Contractor'or 'Qualified Loader'. For more information refer to the Hazardous Substances 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 NZS 8409 Management of Agrichemicals must be kept whenever DEBUT is used. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.This product must not be applied onto or into water.
Conditions for safe	Keep out of reach of children. Store in original container tightly closed and
storage, including any incompatabilities	in a locked, dry, cool area away from sources of ignition and foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 1000L of DEBUT are subject to signage and secondary containment and more than 1000L require emergency response plans.
Other Information	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 control	ols/personal protection
Occupational exposure limit values Appropriate engineering controls	No exposure standard for this product has been set, however, an exposure standard has been set for dimethylamine vapour at 2 ppm. Use in a well ventilated area only.
Personal Protective	When opening the container and preparing the spray wear cotton overalls
Equipment	buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals

Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash splashes of concentrate from skin immediately. Wash protective clothing daily after work.

9. Physical and chemical properties

Form	Liquid
Appearance	Clear straw coloured to amber liquid.
Odour	Faint ammoniacal odour.
Decomposition Temperature	Data not available.
Melting Point	Approx -5°C
Boiling Point	100°C
Solubility in Water	Soluble in water.
Specific Gravity	1.17



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Safety Data Sheet

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9.0-10.0	(1%	aqueous)		

Vapour Pressure	Active ingredient considered non volatile.
Vapour Density (Air=1)	Not applicable.
Volatile Component	16 - 30%
Partition Coefficient: n-octanol/water	logP Kow = 1.35 (pH 7)@ 20°C (2,4DB)
Flash Point	Not applicable.
Flammability	Not flammable.
Auto-Ignition Temperature	Not applicable.
Kinematic Viscosity	Data not available.
Other Information	Soluble Concentrate.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible	Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-DB acid and largely de-activate the product and cause blockages in spray equipment.
Materials	The addition of a strong alkali such as caustic soda will cause release of dimethylering
Hazardous	dimethylamine vapour.
Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

III Iomeological I	
Toxicology	No harmful effects are expected if the precautions on the label and this MSDS
Information	are followed.
Acute Toxicity - Oral	LD50 (rat) 1470 mg/kg for technical 2,4-DB LD50 (rat) 700 mg/kg for dimethylamine
Acute Toxicity -	LD50 (rat) 800 mg/kg for technical 2,4-DB
Dermal	
Acute Toxicity -	LC50(4hr)= >2.3 mg/l air.
Inhalation	
Ingestion	Harmful if swallowed. May cause irritation to mouth, throat and stomach.
Inhalation	Harmful if inhaled. When applying the product as a spray avoid breathing in spray mist.
Skin	Prolonged contact with the concentrate may cause irritation.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Skin Sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Information not available.
Carcinogenicity	Information not available.
Reproductive Toxicity	Information not available.
STOT-repeated	Target organ toxicant.
exposure Aspiration Hazard	Information not available.
Chronic Effects	Chronic Overexposure: Weight loss and damage to liver and kidneys may be expected if exposure is excessive.
Human Effects	Symptoms of acute overexposure may include: headache, nausea, dizziness and vomiting.
Other Information	In extreme cases, possibly twitching and spasms, dyspnea, cyanosis and exhaustion. The Australian Acceptable Daily Intake (ADI) for 2,4-DB for a human is 0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.9 mg/kg/day, the level determined to show no effects during long



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term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2014).

12. Ecological info	ormation
Persistence and	Average field half life of 2,4-DB dimethylamine salt is 10 days.
degradability	
Environmental Fate	2,4-DB has a moderate potential to bioaccumulate with a BCF of 175 L/kg .In susceptible plants it rapidly undergoes B-oxidation to 2,4-D which is then degraded to 2,4-dichlorophenol, followed by ring hydroxylation and ring opening. In tolerant plants B-oxidation to 2,4 D is very slow.
Bioaccumulative	Moderate to low.
Potential	
Other Precautions	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental	Spray drift can cause damage, read the label for more information.
Protection	
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product.Data below is for active ingredient unless otherwise stated.
Acute Toxicity - Fish	The following is data for the active ingredient, 2,4-DB amine salt and esters. LC50 (96hr) for rainbow trout is 4 mg/l.
Acute Toxicity -	Not toxic to bees.
Other Organisms	

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 U.N. Number	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. 3082	
Hazchem Code	22	
IMO Marine Pollutant EMS	Yes. Marine Pollutant mark required. F-A, S-F	
Other Information	Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 4500 for additional information. Sea transport may require additional segregatic Refer NZS5433 sea segregation for details. Do not carry DEBUT on a passenger service vehicle.	

15. Regulatory information

National and or	Registered pursuant to the ACVM Act 1997, No. P9697
International	See www.foodsafety.govt.nz for registration conditions
Regulatory	Approved pursuant to the HSNO Act 1996, Approval Code HSR101356
Information	See www.epa.govt.nz for approval controls.

16. Other Information

Date of preparation	First Issue- Jan 2020	
or last revision of		
SDS		
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:End Of MSDS	0800 764 766

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