


Infosafe No™ 3NUT7	Issue Date : February 2024	ISSUED by NUFARMNZ
Product Name DOCKSTAR®		

Section 1 - Identification

Product Identifier	DOCKSTAR®
Product Code	00190
Product Type	Selective 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	Selective systemic herbicide for the control of docks, yellow bristle grass and bracken.
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 Reproductive toxicity: Category 2 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the aquatic environment chronic Category 3
Signal Word (s)	WARNING
Hazard Statement (s)	H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. H412 Harmful to aquatic life with long lasting effects. H423 Harmful to the soil environment.
Precautionary Statement – General	P103 Read carefully and follow all instructions. P102 Keep out of reach of children.
Pictogram (s)	Health hazard 
Precautionary Statement – Prevention	P264 Wash hands and face thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 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. P308+P313 IF exposed or concerned: Get medical advice/attention.
Precautionary Statement – Storage	P405 Store locked up.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved treatment facility.

Section 3 - Composition and Information on Ingredients

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Chemical Liquid

Characterization

Ingredients

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Asulam (present as the sodium salt)	2302-17-2	390 g/L
Ingredients determined to be non-hazardous	-	balance

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

Suitable Extinguishing Media	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	On burning may emit fumes which are toxic and/or irritating.
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. Keep containers cool with water spray.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
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 detergent and absorb with 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 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.

Section 7 - Handling and Storage

Precautions for Safe Handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
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: Is not required.
BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to the other desirable plants.

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. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Stores containing 1,000L of DOCKSTAR require secondary containment and are subject to signage, and more than 1,000L 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.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL) 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. Wash splashes of concentrate from skin immediately.

Section 9 - Physical and Chemical Properties

Form Liquid

Appearance Light brown

Odour Odourless

Decomposition Temperature Information is not available.

Solubility in Water For active ingredient asulam-sodium >600g/L (20-25°C).

pH 7.0 - 8.0

Vapour Pressure Information is not available.

Vapour Density (Air=1) Information is not available.

Odour Threshold Information is not available.

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Partition Coefficient: n-octanol/water	Information is not available.
Density	1.17
Flash Point	Information is not available.
Flammability	Combustible
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Relative Density	S.g./density for active ingredient asulam-sodium = 1.525(20°C).
Melting/Freezing Point	Melting point for active ingredient asulam-sodium = 230°C.
Other Information	(SL) Soluble concentrate

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Acids. Oxidising agents
Hazardous Polymerization	Not known to occur.

Section 11 - Toxicological Information

Toxicology Information	No specific toxicological data is available for this product. Data below is for constituents.
Acute Toxicity - Oral	Asulam-sodium active ingredient = Oral Acute oral LD50 for rats, mice, rabbits and dogs >4000mg/kg.
Acute Toxicity - Inhalation	Asulam-sodium active ingredient = Inhalation LC50 (6h) for rats >1.8mg/l air.
Acute Toxicity - Dermal	Asulam-sodium active ingredient = Skin and eye Acute percutaneous LD50 for rats >1200mg/kg.
Skin Corrosion/Irritation	Information is not available.
Serious Eye Damage/Irritation	This product is a serious eye irritant.
Respiratory Sensitisation	Information is not available.
Skin Sensitisation	Information is not available.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Single Exposure	Information is not available.

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STOT - Repeated Exposure	Information is not available.
Aspiration Hazard	Information is not available.
Other Information	The Australian Acceptable Daily Intake (ADI) for asulam for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 40 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 4/2023).

Section 12 - Ecological Information

Ecotoxicity	Harmful to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Selective herbicide - very toxic to some plant species.
Persistence and Degradability	Asulam is rapidly degradable. DT50 c. 6-14d for asulam
Mobility	Information is not available.
Bioaccumulative Potential	Information is not available.
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Fish	LC50 (96h) harlequin fish = >1,700mg/L for asulam
Acute Toxicity - Daphnia	LC50 (48h) Daphnia = 27mg/L for asulam
Acute Toxicity - Algae	Asulam-sodium active ingredient = Algae EC50 (120h, static) >0.66mg/L.
Acute Toxicity - Other Organisms	Asulam-sodium active ingredient = Bird Acute oral LD50 for chickens, pigeons and quail >2000mg/kg.

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 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.
Storage and Transport	Not classified as Dangerous Goods for transport in New Zealand.
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.

Section 15 - Regulatory Information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P9015 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000424 See www.epa.govt.nz for approval controls.
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Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	December 2023.
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

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Revisions Various changes and updates made to the document to comply with GHS7.
Highlighted

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