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Infosafe No™ 3NUC8

Issue Date :May 2024

ISSUED by NUFARMNZ

Product Name LION® HERBICIDE

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Product Name LION® HERBICIDE

Precautionary Statement – Disposal P391 Collect spillage. P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

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Chemical Characterization	Liquid		
Ingredients	Name	CAS	Proportion
-	Glyphosate (present as the isopropylamine salt)		360 g/L
	Amines, tallow alkyl, ethoxylated	61791-26-2	5-15 %
	Water	7732-18-5	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, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	This product, or spray solutions of this product, react with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixture. If involved in a major fire, could evolve oxides of nitrogen or phosphorus.
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.
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 DisposalWear 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. Final clean-up with



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	degreasing agent or detergent is advised.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent contamination of soil and water. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

Section 7 - Handling and Storage

The person mixing or applying LION HERBICIDE must be a 'Oualified 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. Avoid skin and eye contact and inhalation of spray mist. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.
CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Is not required.
Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers, pesticides and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 1,000L of LION HERBICIDE require secondary containment and are subject to signage, and more than 1,000L require emergency response
plans. Solutions of LION HERBICIDE should be mixed, stored and applied only in stainless steel, aluminium, brass, copper, fibreglass, plastic or plastic lined containers. Do not mix or store this product in galvanized or unlined steel (except stainless steel) containers or spray tanks. LION HERBICIDE or solutions of LION HERBICIDE react with such containers to produce hydrogen gas which may form a highly combustible gas mixture which can flash or explode if ignited.
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. Avoid contact with foliage or green stems or fruit or crops, desirable plants and trees, since severe injury or death may occur. Do not allow drift to occur outside the target area.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	The EEL for glyphosate is set at 0.37mg/L.
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.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Clear green liquid.
Odour	Mild surfactant odour.

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Decomposition Temperature	Information is not available.
Melting Point	Occurs in 2 steps, 143-164°C and 189-223°C for glyphosate as isopropylamine salt.
Boiling Point	>100°C (water)
Solubility in Water	Soluble
Specific Gravity	1.17 @ 20°C
рН	4.6 (8% aqueous)
Vapour Pressure	2.1 x 10^-3mPa (25°C) for glyphosate as isopropylamine salt.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow logP = -5.4 (20°C) for glyphosate as isopropylamine salt.
Flash Point	Information is not available.
Flammability	Non combustible material.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(SL) Soluble concentrate

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Non corrosive to stainless steel, polyethylene, aluminium, copper, brass, fibreglass and plastics. LION HERBICIDE reacts with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas that may form a highly combustible gas mixture which can flash or explode if ignited. Avoid contact of the concentrate with strong alkalis. Such contact may release isopropylamine vapour with a strong fish like odour, which can be irritant to eyes. Isopropylamine has an inhalation LC50(rat) of 9.8mg/L and a WES TWA of 5ppm.
Hazardous Polymerization	Hazardous polymerisation will not occur.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >5,000 mg/kg for glyphosate as isopropylamine salt.
Acute Toxicity - Inhalation	LC50(rat) (4h) >1.3mg/L air for glyphosate as isopropylamine salt.
Acute Toxicity - Dermal	LD50 (rabbit) >5,000 mg/kg for glyphosate as isopropylamine salt.
Ingestion	The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea. Ingestion of a large quantity of the undiluted product may result in



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	hypotension and pulmonary oedema.
Inhalation	When applying the product as a spray avoid breathing in spray mist. May cause irritation to mucous membranes and respiratory tract.
Skin	Not a skin irritant (rabbits) for active ingredient glyphosate.
Corrosion/Irritation	
Serious Eye Damage/Irritation	This product causes serious eye irritation.
Skin Sensitisation	Information is not available.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Various regulatory agencies classify glyphosate as non-carcinogenic. The International Agency for Research on Cancer (IARC) classified glyphosate as 'probably carcinogenic to humans' (Group 2A). This finding was considered by various regulators post 2015.
Reproductive Toxicity	Information is not available.
STOT - Repeated Exposure	Information is not available.
Aspiration Hazard	Information is not available.
Other Information	The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30 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 1/2024).
Section 12 - Ecolo	gical Information
Persistence and Degradability	In Soil (field) DT50 varies from 1-130 days depending on environmental conditions for glyphosate.

Degradability	conditions for glyphosate.	
Mobility	Adsorption studies indicate that glyphosate has very low mobility.	
Bioaccumulative Potential	Glyphosate is not bioaccumulative, BCF is <1 for bluegill sunfish.	
Other Precautions	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.	
Environmental Protection	Glyphosate is a non-selective contact herbicide. Spray drift can cause damage.	
Acute Toxicity - Fish	LC50 (96hr) for trout and bluegill sunfish >1000mg/L for glyphosate as isopropylamine salt.	
Acute Toxicity - Daphnia	LC50 (48h) = 930mg/L for glyphosate as isopropylamine salt.	
Acute Toxicity - Algae	EbC50 (72hr) Scenedesmus subspicatus = 72.9mg/L for glyphosate as isopropylamine salt.	
Acute Toxicity - Other Organisms	Earthworm (Eisenia foetida) LC50(14d) >5000mg/kg soil for glyphosate as isopropylamine salt.	
Other Information	Environmental Exposure Limit (EEL) for glyphosate = 0.37mg/L.	

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	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.	
Information	food, food related materials and animal feedstuffs.	



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Infosafe No™ 3NUC8	Issue Date :Mav 2024	ISSUED by NUFARMNZ
INFORME NO SNOCO	155UC Date . May 2027	ISSUED BY NOTAINE

Product Name LION® HERBICIDE

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (glyphosate)	
Hazard Class	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 LION HERBICIDE 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	Registered pursuant to the ACVM Act 1997, No. P6015
International	See www.foodsafety.govt.nz for registration conditions
Regulatory	Approved pursuant to the HSNO Act 1996, Approval Code HSR000227
Information	See www.epa.govt.nz for approval controls.
Packaging and	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Labelling	KEEP OUT OF REACH OF CHILDREN

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	July 2019.
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 the document to comply with GHS7. End Of MSDS

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