

Infosafe No™ 3NUDO	Issue Date : August 2018	ISSUED by NUFARMNZ
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 Product Name **FREEWAY®**

1. Identification

GHS Product Identifier	FREEWAY®
Product Code	01749
Product Type	Surfactant
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	Organosilicone surfactant which improves the wetting and penetration of some herbicides on specific weeds and improves the uptake of ReTain® plant growth regulator.
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

Other Information	6.1D acute toxicant, 6.3A skin irritant, 6.4A eye irritant, 9.1B aquatic toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause skin and eye irritation. ECOTOXIC Toxic to aquatic organisms with long-lasting effects.
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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Polyether modified polysiloxane	134180-76-0	1020g/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.
Eye contact	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.

5. Fire-fighting measures

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--------------------	--------------------------	--------------------

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Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Unsuitable Extinguishing Media	Do not use water in a jet.
Hazards from Combustion	Silicone dioxide, carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.
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.
Hazchem Code	2X
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.
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	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: Not applicable TRACKING: Is not required RECORD KEEPING: Not applicable
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 FREEWAY 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.

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 faceshield or safety goggles, impervious 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.

9. Physical and chemical properties

Form	Liquid
Appearance	Yellow - amber liquid
Solubility in Water	Soluble
Specific Gravity	1.01

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pH	6 - 8
Viscosity	40 - 90 mPa.s @ 25°C
Flash Point	102°C
Flammability	Combustible.
Other Information	(SL) Soluble concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Toxicology Information	Toxicological data below refers to the undiluted product.
Acute Toxicity - Oral	LD50 (rat) 3,200 mg/kg
Acute Toxicity - Dermal	LD50 (rat) >2,000mg/kg LD50 (rabbit) 1,550 mg/kg
Acute Toxicity - Inhalation	LC50 dust/mist (rat) = 1.08mg/L/4h
Ingestion	Low ingestion hazard in normal use.
Inhalation	Harmful by aerosol inhalation.
Skin	No significant irritation expected from a single short term exposure. Repeated or prolonged exposure may cause irritation.
Eye	Direct contact may cause severe irritation.
Skin Sensitisation	(Guinea pig) non-sensitizing
Health Hazard	Harmful by inhalation and in contact with skin. Irritates eyes and skin.
Chronic Effects	Repeated or prolonged exposure may cause irritation.
Serious eye damage/irritation	Strong irritant (rabbit)
Skin corrosion/irritation	Slight irritant

12. Ecological information

Acute Toxicity - Fish	LC50 (96h) rainbow trout = 2.1mg/L for Freeway
Acute Toxicity - Daphnia	EC50 (48h) = 1.1mg/L for Freeway
Acute Toxicity - Algae	EbC50 (72h) Scenedesmus subspicatus = 28.2 mg/L refer to biomass for Freeway ErC50 (72h) Secendesmus subspicatus = 152.2mg/L growth rate for Freeway

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. - (polyether-modified polysiloxane, 100%)
Transport hazard class(es)	9
Hazchem Code	2X

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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 FREEWAY 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

National and or International Regulatory Information	Approved pursuant to the HSNO Act 1996, Approval Code HSR002503 See www.epa.govt.nz for approval controls. This product does not require registration under the ACVM Act.
Packaging & Labelling	HARMFUL * ECOTOXIC - keep out of reach of children
Hazard Rating	NFPA/HMIS: 2-1-0
Hazard Category	HARMFUL * ECOTOXIC - Keep out of reach of children

16. Other Information

Date of preparation or last revision of SDS	September 2013
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 document. ...End Of MSDS...

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