

Infosafe No™ 3NUDO	Issue Date : August 2018	ISSUED by NUFARMNZ
--------------------	--------------------------	--------------------

 Product Name **FREEWAY®**

## 1. Identification

<b>GHS Product Identifier</b>	FREEWAY®
<b>Product Code</b>	01749
<b>Product Type</b>	Surfactant
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency phone number</b>	0800 651 911
<b>Email</b>	nzinfo@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	Organosilicone surfactant which improves the wetting and penetration of some herbicides on specific weeds and improves the uptake of ReTain® plant growth regulator.
<b>Other Information</b>	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

<b>Other Information</b>	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.
--------------------------	---

## 3. Composition/information on ingredients

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

## 4. First-aid measures

<b>First Aid Measures</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	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.
<b>Eye contact</b>	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.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

Infosafe No™ 3NUDO	Issue Date : August 2018	ISSUED by NUFARMNZ
--------------------	--------------------------	--------------------

Product Name **FREEWAY®**

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Unsuitable Extinguishing Media</b>	Do not use water in a jet.
<b>Hazards from Combustion</b>	Silicone dioxide, carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.
<b>Special Protective Equipment for fire fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: Not applicable TRACKING: Is not required RECORD KEEPING: Not applicable
<b>Conditions for safe storage, including any incompatibilities</b>	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.
<b>Other Information</b>	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

<b>Occupational exposure limit values</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	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.
<b>Hygiene Measures</b>	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

<b>Form</b>	Liquid
<b>Appearance</b>	Yellow - amber liquid
<b>Solubility in Water</b>	Soluble
<b>Specific Gravity</b>	1.01

Infosafe No™ 3NUDO	Issue Date : August 2018	ISSUED by NUFARMNZ
--------------------	--------------------------	--------------------

 Product Name **FREEWAY®**

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

## 10. Stability and reactivity

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

## 11. Toxicological Information

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

## 12. Ecological information

<b>Acute Toxicity - Fish</b>	LC50 (96h) rainbow trout = 2.1mg/L for Freeway
<b>Acute Toxicity - Daphnia</b>	EC50 (48h) = 1.1mg/L for Freeway
<b>Acute Toxicity - Algae</b>	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

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

## 14. Transport information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>U.N. Number</b>	3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (polyether-modified polysiloxane, 100%)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2X

Infosafe No™ 3NUDO	Issue Date : August 2018	ISSUED by NUFARMNZ
--------------------	--------------------------	--------------------

Product Name **FREEWAY®**

---

<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-
<b>IERG Number</b>	47
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>IMDG EMS</b>	F-A, S-F
<b>Other Information</b>	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

---

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

## 16. Other Information

---

<b>Date of preparation or last revision of SDS</b>	September 2013
<b>Contact Person/Point</b>	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
<b>Revisions Highlighted</b>	5 yearly review carried out. Various changes and updates made to document.  ...End Of MSDS...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.