

Kylie Flood

From: Administration Requests
Sent: Wednesday, 30 October 2019 5:04 p.m.
To: [REDACTED]
Cc: Administration Requests
Subject: FW: Official Information Request (LGOIMA)
Attachments: msds-agpro-green-glyphosate-510-vavwk.pdf; msds-agpro-organosilicone-1f-juqsu.pdf; msds-agpro-haloxfop-100-k6sg0.pdf; msds-agpro-meturon-mb6in.pdf; Deal 510 RF SDS - July 2015.pdf; Ken-Met-600-SDS.pdf; Penntri8-SDS.pdf

Hi Candy

Thank you for your information request relating to spraying in Kaipara.

Our Roading team currently undertakes three spray rounds per annum, at a total cost of \$112,500. This includes 2m wide edge spraying in our rural environments, and in the urban environments includes footpaths, kerb and channels and road edges. Our spray rounds do not target culvert ends or street signage.

Our spray rounds are currently targeted around the heavy growth periods, when conditions are suitable, approximately in September, December and March. All network spray rounds are advertised in advance through the local newspapers, and spray periods can vary dependent on wind and rain. Attached are copies of the Material Safety Data Sheets on the products used in undertaking roadside spraying.

With regards to Parks the annual spray charges for Parks and Reserves Chemical Edging is \$30,849.48 and Berms Chemical Edging is \$41,861.52.

For gardening maintenance the costs for chemical spraying are not separated out so we estimate the chemical spraying component to be around \$19,500.

Material Safety Data sheets are attached for the chemicals used. Predominantly they use Glyphosate 510 and organosilicone is sometimes used in conjunction with the glyphosate but in most situations is not required. Metsulfuron Methyl is only used on occasion to help with stubborn weeds. Sometimes Haloxfop is used, usually on Manchurian rice grass and sometimes to control grasses in groundcover plants. Spraying is performed as required and where weather conditions allow.

Our Council does not use an annual spray calendar. Small amounts of spraying occur on a fairly continuous basis in gardens, edging paths, around signs and trees etc. in parks.

Our Council doesn't spray within playgrounds.

Regards Linda



Linda Osborne | Administration Manager
Kaipara District Council, Private Bag 1001, Dargaville 0340
Freephone: 0800 727 059 | 09 439 3123
council@kaipara.govt.nz | www.kaipara.govt.nz

From: Candy Nalder [REDACTED]
Sent: Saturday, 5 October 2019 1:40 PM

To: Administration Requests <administrationrequests@kaipara.govt.nz>

Subject: Official Information Request (LGOIMA)

Dear Sir or Madam,

Please supply the following information under the [Official Information Act (OIA) / Local Government Official Information and Meetings Act (LGOIMA)]:

I'm interested to know how much Council spends on roadside spraying per annum. Are you able to provide information for the different chemical herbicides used?

If possible, I'd also like to know the annual calendar of weed control, for example: how often are culverts and roads signs sprayed and **how often playgrounds and parks.**

If you need any more information from me please let me know as soon as possible.

I understand that a decision on a request for information under the [OIA/LGOIMA] should be made within 20 working days of receiving that request.

If you do not normally deal with official information requests, or you need advice on dealing with this request, guidance is available from the Ombudsman at www.ombudsman.parliament.nz.

Yours faithfully,

Candy Nalder



Note:

This message is for the named person's use only. It may contain confidential, proprietary or legally privileged information. If you receive this message in error, please immediately delete it and all copies of it from your system, destroy any hard copies of it and notify the sender. You must not, directly or indirectly, use, disclose, distribute, print, or copy any part of this message if you are not the intended recipient. No confidentiality or privilege is waived or lost by any such mis-transmission or error.

Downer reserves the right to monitor all e-mail communications through its networks. Any views expressed in this message are those of the individual sender, except where the message states otherwise and the sender is authorized to state them to be the views of any such entity.

Downer includes Downer New Zealand Limited and Hawkins 2017 Limited and their related and associated companies.

This email has been filtered by SMX. For more information visit smxemail.com

1. SUBSTANCE IDENTIFICATION:**AGPRO Green Glyphosate 510**

SUPPLIER NAME: AGPRO NZ Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland.
SUPPLIER PHONE: 09 273 3456 SUPPLIER FAX: 09 273 3457
EMERGENCY PHONE: 0800 POISON
CHEMICAL FAMILY: phosphono methyl glycine
USE: Non-selective systemic herbicide

2. HAZARDS IDENTIFICATION:

HAZARD CLASSES: 9.1B: Toxic to aquatic life with long lasting effect.
Refer to Section 15 for EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME	CAS NUMBER	CONCENTRATION
Glyphosate isopropylammonium	38641-94-0	510g/L
Ammonium Quaternary Compound	Proprietary	<200g/L

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation occurs.
SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
INGESTION: If swallowed, drink several glasses of water. DO NOT induce vomiting unless patient has induced high doses. Seek medical advice.
NOTES TO DOCTOR: No specific antidote.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Non-flammable.
FLAMMABLE LIMITS: None.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: Include oxides of carbon and nitrogen.
SPECIAL FIRE FIGHTING METHODS: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately. Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Do not mix or store in galvanised or unlined steel. Store in original container, tightly closed, away from foodstuffs, seeds, fertilisers and pesticides. Keep out of reach of children. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS:	Not established by OSHA.
EYE PROTECTION:	Where eye contact is likely, use chemical splash goggles.
RESPIRATORY PROTECTION:	Air respirator with organic vapour canister or self contained breathing apparatus when exposed to vapours from heated material.
PROTECTIVE CLOTHING:	Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.
VENTILATION:	General (mechanical) room ventilation is considered satisfactory.
HYGENE PRECAUTIONS:	Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Clear golden liquid water soluble concentrate.		
BOILING POINT:	Not Available.	pH:	5.0.
DENSITY:	1.220g/mL @ 20°C.	SETTING POINT:	Not Available.
DECOMPOSITION TEMP:	Not Available.	AUTOIGNITION TEMP:	Not Applicable.
FLASHPOINT:	Not Applicable.	VAPOUR DENSITY:	Not Available.
EXPLOSION PROPERTIES:	Not Applicable.	VAPOUR PRESSURE:	Not Available.
SOLUBILITY:	100% in water.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not Available.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	None.
MATERIALS TO AVOID:	Galvanised or unlined steel containers.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 (rats) >5000mg/kg.
ACUTE DERMAL:	LC50 (rat) inhalation >5,000 mg/kg.
ACUTE INHALATION:	LC50 (rats) >10 mg/L for 4 hour aerosol exposure.
OTHER TOXICITY INFORMATION:	Warning - May cause skin irritation, avoid skin contact. Warning - May cause eye irritation, avoid contact with eyes.

12. ECOLOGICAL INFORMATION:

AQUATIC TOXICITY:	LC50 Fish (Trout) 72hr >50mg/L
SOIL TOXICITY:	Not toxic to worms.
TERRESTRIAL VERTEBRATES - BIRDS:	Not toxic to birds.
TERRESTRIAL INVERTEBRATES - BEES:	Not toxic to bees.

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Burn the container if circumstances, especially wind direction permit. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose.



AGPRO SAFETY DATA SHEET

AGPRO GREEN GLYPHOSATE 510

Issue Date: 17/10/2018

14. TRANSPORT INFORMATION:

PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GLPHOSATE 510G/L)
DG CLASS:	9
UN NUMBER:	3082
HAZCHEM:	2X

15. REGULATORY INFORMATION:

This product DOES NOT have any Approved Handler, Tracking, or Record Keeping Requirements.

See the ERMA Website for more details: www.epa.govt.nz

EPA Approval Code: HSR007811

ACVM Pesticide Number: P007029

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

SAFETY DATA SHEET

DEAL 510 RF

1: Identification of the Substance and Supplier

Product Name	DEAL 510 RF
Recommended Use	Herbicide
Company Details	Orion AgriScience Ltd Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053 PO Box 39 071, Harewood, Christchurch, 8545 www.orionagriscience.co.nz
Web Address	www.orionagriscience.co.nz
Email Address	orders@orionagriscience.co.nz
Telephone Number	(03) 928 2386 (office hours), 0800 674 6627 (free phone)
Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poison Centre	0800 POISON (0800 764 766) (24 hours)
Date of Issue/Revision	July 2015

2: Hazards Identification

Hazard Pictograms



Priority Identifiers:	Ecotoxic
HSNO Classes:	Secondary Identifiers:
6.3A	May cause skin irritation
9.1B	Ecotoxic to some aquatic plants

3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/v)
Glyphosate isopropylamine(active ingredient)	38641-94-0	69
Other ingredients, surfactants, water, etc	Proprietary	Remainder

4: First Aid Measures

Skin Contact:	In case of contact, immediately wash affected area with soap and water. Wash contaminated clothing before reuse. Seek medical advice if irritation persists.
Eye Contact:	Hold eyes open and rinse with water for at least 15 minutes. Remove contact lenses if easy to do so. Seek medical advice if irritation persists.
Ingestion:	Do not induce vomiting. Seek medical advice immediately.
Inhalation:	Immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Seek medical advice if feeling unwell.
Workplace Facilities:	Hand wash facility. Eye wash facility.
Advice to Doctor:	No specific antidote. Treat symptomatically.
National Poison Centre	0800 POISON (0800 764 766) (24 hours)

5: Fire-Fighting Measures

Fire/Explosion Hazard	Non-Flammable.
HAZCHEM Code	3Z
ERP Guide No	47
Extinguishing Media	Water spray, foam, dry chemical or CO2. Avoid water jet.
Fire Fighting Instructions	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

6: Accidental Release Measures

Caution: Floors may be slippery if wet. When dealing with spills wear personal protective clothing and equipment as described in section 8. Prevent further spillage or leakage. Keep bystanders away. Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of safely to a suitable landfill.

7: Storage, Handling and Use

<p>Storage:</p> <p>Handling and Use:</p> <p>Approved Handler</p> <p>Tracking</p> <p>Record Keeping</p> <p>REI</p> <p>Site Requirements under the HSNO Act 1996 and HSNO Regulations:</p> <p>Additional Requirements</p>	<p>Keep out of reach of children. Store in the original, tightly closed container, in a secure area away from foodstuffs. Keep out of reach of children. Avoid contact with eyes and skin. Avoid inhalation of spray mist. When mixing or applying, wear protective clothing as described in section 8. Do not eat, drink or smoke while using. Wash hands and face after use. Wash protective clothing after use. This product should only be mixed, contained in or sprayed by, equipment made from stainless steel, fibreglass, plastic, aluminium, brass or copper. A highly flammable gas (hydrogen) may be formed from the contact of this product with galvanised or unlined steel. All spray equipment, including pumps, spray tanks, lines, nozzles, and landing gear (aircraft) should be thoroughly washed with water after each day of spraying</p> <p>Not required.</p> <p>Not required.</p> <p>Not required.</p> <p>Until spray has dried</p> <ul style="list-style-type: none"> • A location test certificate is not required • A hazardous atmosphere zone is not required • Fire extinguishers are not required • Signage is required for 1000 litres or more • Emergency information is required for 5 litre or more • An emergency plan is required for more than 1000 litres • Secondary containment is required for more than 1000 litres. • Separation/Segregation from incompatible substances is not applicable. <p>All aspects of storage, handling, use, disposal and record keeping must be in accordance with NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans.</p>
---	---

8: Exposure Control / Personal Protection

<p>Tolerable Exposure Limit</p> <p>Workplace Exposure Standards</p> <p>Engineering Controls</p> <p>Personal Protection:</p> <p>Eye</p> <p>Skin</p> <p>Respiratory</p>	<p>None established.</p> <p>Product – None established (Use lowest practicable level).</p> <p>Active ingredient – None established (Use lowest practicable level).</p> <p>Excipients – None established (Use lowest practicable level).</p> <p>Limited given nature of use.</p> <p>Safety glasses/goggles when mixing or applying.</p> <p>Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves.</p> <p>Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.</p>
--	--

9: Physical and Chemical Properties

<p>Form</p> <p>Odour</p> <p>Boiling Point</p> <p>Flash Point</p> <p>Auto ignition Temperature</p> <p>Explosive Limits</p> <p>Density</p> <p>Vapour Pressure</p> <p>Vapour Density</p> <p>Solubility in Water</p> <p>pH</p> <p>Oxidising Properties</p> <p>Corrosive Properties</p>	<p>Green Liquid</p> <p>Faint amine or odourless</p> <p>Not available</p> <p>Will not flash</p> <p>Not applicable</p> <p>Not applicable</p> <p>1.21 g/mL (approx)</p> <p>Not available</p> <p>Not volatile</p> <p>Soluble</p> <p>4.5 – 5.5</p> <p>Not an oxidizer</p> <p>Not a corrosive</p>
---	---

10: Stability and Reactivity

<p>Stability</p> <p>Incompatibility</p> <p>Decomposition</p> <p>Dangerous Reactions</p>	<p>Stable under normal conditions.</p> <p>Avoid mixing with strong acids and strong alkalis. Do not place in unlined steel or galvanised equipment.</p> <p>Decomposition will not occur under normal conditions.</p> <p>Products arising from combustion, reaction, or thermal decomposition may be toxic, corrosive or flammable.</p>
---	--

11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

<p>Swallowed</p> <p>Eye</p> <p>Skin</p> <p>Inhalation</p> <p>Acute Toxicity (Active Ingredient)</p>	<p>Burning sensation in throat and chest, nausea, vomiting, diarrhoea.</p> <p>Irritation.</p> <p>Irritation.</p> <p>Irritation.</p> <ul style="list-style-type: none"> • Acute Oral LD50 (Rat) 3800 mg/kg • Acute Dermal LD50 (Rat) >2000 mg/kg • Inhalation LC50 (4 hr) (Rat) >5 mg/l
--	---

SAFETY DATA SHEET

DEAL 510 RF



Sensitisation Effects	None
Mutagenic Effects	None
Carcinogenic Effects	None
Reproductive Effects	None
Teratogenic (Birth) Effects	None
Systemic Effects	None

12: Ecotoxicity Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

The following information is presented in respect of the active ingredient:

Ecotoxic Effects	<ul style="list-style-type: none">LC50 (96 hr) (Rainbow trout) 38 mg/lLC50 (48 hr) (Daphnia) 40 mg/lLC50 (72 hr) (Algae) 4.4 mg/lVery toxic to plant species (herbicide)Non - toxic to bees.
Environmental Fate	Biodegradable. DT50 (soil) 12 days (typical)
Partition Co-Efficient (Kow)	LogP = <-3.2 (low)
Environmental Exposure Limit:	Product: None set Active Ingredient: 3.6 mg/l as glyphosate (in water); equivalent to 1 ml Deal 510RF per 140 litres of water

13: Disposal Considerations

Product	Dispose of product by using it in accordance with the label. Waste product should be disposed of to a suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.
Container	Dispose of to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use packaging for any other purpose.

14: Transport Information

Dangerous Goods	
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GLYPHOSATE ISOPROPYLAMINE 69%)
Class	9
Subsidiary Class	None
Packing Group	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	1000 litres
Passenger Service Vehicle:	Maximum quantity 1 litre

15: Regulatory

HSNO Approval No	HSR000133
ACVM Registration No	P7340

16: Other Information

Glossary	
Approved Handler	For some hazardous substances, persons storing, handling and using must be trained and certified
DT50	Time (days) for 50% reduction in concentration
EC50	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
HAZCHEM Code	Emergency action code for emergency services
HSNO	Hazardous Substances and New Organisms
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% or organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the

SAFETY DATA SHEET

DEAL 510 RF



Partition Co-Efficient Kow	user Ratio of concentration between octanol and water. Values are given as the log value. A high value indicates a substance may bioaccumulate
Record Keeping	Includes a spray diary
REI	Restricted Entry Interval – The length of time after application before entry into the treated area is permitted without the use of protective equipment. For indoor environments, this time period commences once ventilation after treatment begins.
Safety Note	A brief document providing hazardous substance information for transport, storage and emergency management purposes
STEL	Short term exposure level
Tolerable Exposure Limit	Maximum concentration limit of a substance above which persons must not be exposed
Tracking	For some hazardous substances, a record must be kept of the transport, storage, sale and use of the product
TWA	Time weighted average
Workplace Exposure Standard	An occupational health standard limiting concentrations of specified substances to which persons are exposed
Wide Dispersive Use	A method of application involving equipment such as boom sprayers, mist blowers, vine sprayers, row sprayers, etc., as well as aerial application. Hand gunning within 30m of a property boundary is also classed as wide dispersive use. Knapsack sprayers are not classed as wide dispersive use

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label, Safety Note and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Always read the product label before use.

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Ken-Met 600 WG Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: 2 Bond Crescent, Forrest Hill,
Auckland 0620 New Zealand
Telephone Number: (09) 410 0861
Emergency Telephone Number: (24 Hours) 0800 243 622
National Poisons Information Centre : 0800 POISON (0800 764 766)
Use: For the control of gorse, blackberry, broom and other scrub
and broadleaf weeds in pasture, forestry and non-cropland
areas.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification: 6.3B, 6.4A, 9.1A, 9.2A
Priority Identifier: ECOTOXIC
KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers: 6.3B = Harmful – may cause skin irritation.
6.4A = Harmful – may cause eye irritation.
9.1A = Very toxic to aquatic organisms.
9.2A = Very toxic to the soil environment.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Metsulfuron methyl	74223-64-6	60 % w/w
Inert ingredients	secret	40 % w/w

SECTION 4 – FIRST AID MEASURES

Swallowed:	The product is not likely to be hazardous by ingestion. Seek medical attention if necessary.
Skin:	Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use.
Eyes:	Immediately irrigate with plenty of water for at least 15 minutes. Seek medical attention.
Inhaled:	Remove person to fresh air and keep at rest until fully recovered.

Advice to Doctor

No specific requirements. Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazards

Dangerous decomposition or Combustion Products

Thermal decomposition

Not a fire or explosion hazard. Extinguish fire with foam, water spray, dry powder, carbon dioxide (CO₂). On small fires, if area is heavily exposed to fire and if conditions permit let fire burn itself out since water may

increase the contamination hazard. Fine dust dispersed in air (particularly in confined spaces) may ignite if exposed to high temperature ignition source.

Hazardous decomposition products

None known

Hazardous reactions

None known

Extinguishing Media

Extinguish fire with foam, dry powder, carbon dioxide or water spray.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Wear chemical resistant coveralls, gloves and boots. Wear eye protection and respiratory protection if there is a risk of dust/vapour inhalation/contact. Pick up bulk material by sweeping or other effective means and place into drums. Do not flush with water. If spill area is on ground near trees or other valuable plants, remove top 15cm of soil after initial cleanup. Should product contact soil, apply activated charcoal. Activated charcoal will absorb but not completely neutralise the product.

SECTION 7 – HANDLING AND STORAGE

Storage and Transport

Keep container tightly closed. Store in a secure, cool, well-ventilated area away from foodstuffs, seeds, fertilisers and human and/or animal health products.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards

None established for formulated product.

Ingredient	TWA mg/m ³
Metsulfuron methyl AEL	10 mg/m ³ (8 and 12 hour TWA)
Worksafe	10 mg/m ³ ; dusts not otherwise classified

Engineering Control

Use only with adequate ventilation.

Personal Protective Measures

May irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale dust or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules
Colour:	Off White
Odour:	None
Melting point (°C):	Not applicable
Boiling point (°C):	Not applicable
Vapour Pressure:	Not applicable
Bulk Density:	1.58 ± 0.01
Flashpoint:	Not applicable
pH (1% solution):	5.8

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid:

Containers should be kept dry. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities:

Strong oxidising agents.

Fire Decomposition:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulphur (sulphur dioxide is a respiratory hazard) and other sulphur compounds. Most will have a foul odour. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity Data: (metsulfuron methyl)

Acute oral LD₅₀ (rats): > 5000 mg/kg
Acute dermal toxicity > 2000 mg/kg
LC₅₀ (96 h) Bluegill sunfish > 150 mg/L
LD₅₀ (mallard duck) > 2510 mg/kg
8 day oral LC₅₀ (bobwhite quail) > 5620 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

Breakdown of Chemical in Soil and Groundwater: The breakdown of Metsulfuron-methyl in soils is largely dependant on soil temperature, moisture content, and pH. The chemical will degrade faster under acidic conditions, and in soils with higher moisture content and higher temperature. The chemical has a higher mobility potential in alkaline soils than in acidic soils, as it is more soluble under alkaline conditions. Metsulfuron-methyl is stable to photolysis, but will break down in ultraviolet light. Half-life estimates for Metsulfuron-methyl in soil are wide ranging from 14 - 180 days, with an overall average of reported values of 30 days. Reported half-life values (in days) for soil include: clay - 178 ; sandy loam - 102 ; clay loam - 70 , 14-28 , 14-105 ; silty loam - 120-180. Breakdown of Chemical in Surface Water: The dissipation time for Metsulfuron-methyl was investigated in a mixed wood/boreal forest lake. The DT50 or length of time required for half of the material to dissipate in water was >84 days when high concentrations of Metsulfuron-methyl were applied, and 29.1 days at concentrations that might be expected if the chemical is applied for forestry uses. It is stable to hydrolysis at neutral and alkaline pHs, and has a half-life of 3 weeks at pH 5.0, 25°C and >30 days at 15°C. Breakdown of Chemical in Vegetation: Metsulfuron-methyl is rapidly taken up by plants at the roots and on foliage. The chemical is translocated throughout the plant, but is not persistent. It is broken down to non-herbicidal products in tolerant plants.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal

(1) After intended use:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and submit empty containers to a local authority refuse facility. Empty containers and product should not be burnt.

(2) After spill or accident

Pick up bulk material by sweeping or other effective means and place into drums. Do not flush with water. If spill area is on ground near trees or other valuable plants, remove top 15cm of soil after initial cleanup. Should product contact soil, apply activated charcoal. Activated charcoal will absorb but not completely neutralise the product. Cleanup crew should wear rubber gloves and protective clothing. Dispose of sealed containers at approved local waste disposal site.

SECTION 14 – TRANSPORT INFORMATION

UN Number (Sea Transport): 3077

IMO Proper Shipping: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. – (METSULFURON-METHYL, 60%), Class 9, Packing Group III.

SECTION 15 – REGULATORY INFORMATION

HSNO Approval Number: HSR000242

HSNO Controls (inc. Tracking and Record Keeping): See <http://www.epa.govt.nz> for controls.

ACVM Registration: P8293

ACVM Controls: See www.footsafety.govt.nz for registration conditions.

SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

CONTACT POINT:

Police, Ambulance and Fire Service:	Dial	111
National Poisons Information Centre:	Dial	0800 POISON (0800 764 766)
Hazardous Substances Emergency:	Dial	0800 Chemcall (0800 243 622)

1. SUBSTANCE IDENTIFICATION:**AGPRO Haloxyfop 100**

SUPPLIER NAME: AGPRO NZ Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland.
SUPPLIER PHONE: 09 273 3456 SUPPLIER FAX: 09 273 3457
EMERGENCY PHONE: 0800 POISON
CHEMICAL FAMILY: Methyl Ester
USE: Herbicide

2. HAZARDS IDENTIFICATION:

HAZARD CLASSES: 6.1E, 6.4A, 6.9B, 9.1B, 9.1D
Refer to Section 15 for EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME	CAS NUMBER	CONCENTRATION
Haloxyfop P Methyl	72619-32-0	10%
Surfactants		up to 100%

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation occurs.
SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
INGESTION: Do not induce vomiting. Wash out mouth with water. Call a doctor immediately.
NOTES TO DOCTOR: No specific antidote. Treat Symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: >100°C.
FLAMMABLE LIMITS: Not determined.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: Include oxides of carbon.
SPECIAL FIRE FIGHTING METHODS: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately. Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Store in original container, tightly closed, away from foodstuffs, seeds, fertilisers and pesticides. Keep out of reach of children. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS:	Not established by OSHA.
EYE PROTECTION:	Where eye contact is likely, use chemical splash goggles.
RESPIRATORY PROTECTION:	Air respirator with organic vapour canister or self contained breathing apparatus when exposed to vapours from heated material.
PROTECTIVE CLOTHING:	Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.
VENTILATION:	General (mechanical) room ventilation is considered satisfactory.
HYGIENE PRECAUTIONS:	Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Amber Liquid.	pH:	4.0 – 7.5 (5% v/v water)
BOILING POINT:	Not Available.	SETTING POINT:	Not Available.
DENSITY:	0.99 g/mL @ 20°C.	AUTOIGNITION TEMP:	Not Available.
DECOMPOSITION TEMP:	Not Available.	VAPOUR DENSITY:	Not Available.
FLASHPOINT:	>100°C	VAPOUR PRESSURE:	Not Available.
EXPLOSION PROPERTIES:	Not Applicable.		
SOLUBILITY:	Soluble in water.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not Applicable.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	None
MATERIALS TO AVOID:	None
HAZARDOUS DECOMPOSITION PRODUCTS:	None

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 (rats) 4700 mg/kg.
ACUTE DERMAL:	LC50 (rats) >14000 mg/Kg
ACUTE INHALATION:	
OTHER TOXICITY INFORMATION:	

12. ECOLOGICAL INFORMATION:

AQUATIC TOXICITY:	Toxic to fish, LC50 for Fish (96 hr) : 6.37 mg/L (By calculation)
SOIL TOXICITY:	Not toxic to worms.
TERRESTRIAL VERTEBRATES - BIRDS:	Birds: Not toxic to birds.
TERRESTRIAL INVERTEBRATES - BEES:	Bees: Not toxic to bees.

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Burn the container if circumstances, especially wind direction permit. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose.

14. TRANSPORT INFORMATION:

PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
DG CLASS:	9
UN NUMBER:	3082
HAZCHEM:	2X
PACK GROUP:	III



AGPRO SAFETY DATA SHEET

DIRECT

AGPRO HALOXYFOP 100

Issue Date: 20/03/2018

15. REGULATORY INFORMATION:

APPROVED HANDLER:

See the EPA Website for more details:

EPA Approval Code:

ACVM Pesticide Number:

This product must be under the control of an approved handler during use.

www.epa.govt.nz

HSR002431

P007720

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

1. SUBSTANCE IDENTIFICATION:**AGPRO Meturon**

SUPPLIER NAME: AGPRO NZ Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland.
SUPPLIER PHONE: 09 273 3456 SUPPLIER FAX: 09 273 3457
EMERGENCY PHONE: 0800 POISON
CHEMICAL FAMILY: Sulfonylurea
USE: For the control of gorse and other scrub weeds in pasture, forest site preparation and waste areas.

2. HAZARDS IDENTIFICATION:

HAZARD CLASSES: 6.3B - Skin irritant toxic substance of medium hazard.
6.4A - Eye irritant toxic substance of high hazard.
9.1A - Aquatic ecotoxic substance of high hazard.
9.2A - Soil ecotoxic substance of high hazard.

Refer to Section 15 for EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME	CAS NUMBER	CONCENTRATION
Metsulfuron methyl	74223-64-6	600g/kg

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation occurs.
SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
INGESTION: No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. However, seek Medical attention if necessary.
NOTES TO DOCTOR: No specific antidote.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Non-flammable.
FLAMMABLE LIMITS: None.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: Include oxides of carbon and nitrogen.
SPECIAL FIRE FIGHTING METHODS: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately. Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Do not mix or store in galvanised or unlined steel. Store in original container, tightly closed, away from foodstuffs, seeds, fertilisers and pesticides. Keep out of reach of children. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS:	Not established by OSHA.
EYE PROTECTION:	Where eye contact is likely, use chemical splash goggles.
RESPIRATORY PROTECTION:	Air respirator with organic vapour canister or self contained breathing apparatus when exposed to vapours from heated material.
PROTECTIVE CLOTHING:	Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.
VENTILATION:	General (mechanical) room ventilation is considered satisfactory.
HYGIENE PRECAUTIONS:	Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Off-white solid granule.	pH:	Not Applicable.
BOILING POINT:	Not Available.	SETTING POINT:	Not Available.
DENSITY:	1.470 g/mL @ 20°C.	AUTOIGNITION TEMP:	Not Applicable.
DECOMPOSITION TEMP:	Not Available.	VAPOUR DENSITY:	Not Available.
FLASHPOINT:	Not Applicable.	VAPOUR PRESSURE:	Not Available.
EXPLOSION PROPERTIES:	Not Applicable.		
SOLUBILITY:	Not Applicable.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not Available.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	None.
MATERIALS TO AVOID:	None.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 (rats) >5000 mg/kg.
ACUTE DERMAL:	LC50 (rabbit) >2000 mg/Kg.
ACUTE INHALATION:	LC50 (rats) >5 mg/L for 4 hour aerosol exposure.
OTHER TOXICITY INFORMATION:	Warning - May cause skin irritation, avoid skin contact. Warning - May cause eye irritation, avoid contact with eyes.

12. ECOLOGICAL INFORMATION:

AQUATIC TOXICITY:	LC50 (rainbow trout) >150 mg/L.
SOIL TOXICITY:	LC50 (worm) >1000 mg/kg.
TERRESTRIAL VERTEBRATES - BIRDS:	LD50 (mallard ducks) >5000 mg/kg.
TERRESTRIAL INVERTEBRATES - BEES:	Not toxic to bees.

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Burn the container if circumstances, especially wind direction permit. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose.

14. TRANSPORT INFORMATION:

PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Metsulfuron-methyl)
DG CLASS:	9
UN NUMBER:	3077
HAZCHEM:	2Z
PACK GROUP:	III

15. REGULATORY INFORMATION:

APPROVED HANDLER:	This product must be under the control of an approved handler during use.
See the EPA Website for more details:	www.epa.govt.nz
EPA Approval Code:	HSR000242
ACVM Pesticide Number:	P005936

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

1. SUBSTANCE IDENTIFICATION:**AGPRO Organosilicone LF**

SUPPLIER NAME: AGPRO NZ Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland.
SUPPLIER PHONE: 09 273 3456 SUPPLIER FAX: 09 273 3457
EMERGENCY PHONE: 0800 POISON
CHEMICAL FAMILY:
USE: For use with AGPRO Glyphosate 360 and AGPRO Green Glyphosate 510. Enhances penetration and uptake. Reduces the rain-free period.

2. HAZARDS IDENTIFICATION:

HAZARD CLASSES 6.1D –Harmful by inhalation, in contact with the skin or swallowed.
6.4A – Causes serious eye irritation.
9.1B – Toxic to aquatic life with long lasting effects.

Refer to Section 15 for EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME	CAS NUMBER	CONCENTRATION
Polyether Modified Trisiloxane	134180-76-0	> 85%

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention.
SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
INGESTION: Seek medical attention.
NOTES TO DOCTOR: Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: None.
FLAMMABLE LIMITS: None.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS:
SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately. Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Store in original container, tightly closed, away from foodstuffs, seeds, fertilisers and pesticides and strong oxidizing agents. Keep out of reach of children. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS:	Not established by OSHA.
EYE PROTECTION:	Use chemical splash goggles.
RESPIRATORY PROTECTION:	When work conditions are such that aerosols or mists are generated or may be generated, use a suitable approved respirator for organic gases and vapours.
PROTECTIVE CLOTHING:	Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear..
VENTILATION:	General (mechanical) room ventilation is considered satisfactory.
HYGIENE PRECAUTIONS:	Do not eat, drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Clear pale amber liquid		
BOILING POINT:	Not Available	pH:	Not Applicable.
DENSITY:	1.01g/mL @ 25°C.	SETTING POINT:	Not Available.
DECOMPOSITION TEMP:	Not Available.	AUTOIGNITION TEMP:	Not Applicable.
FLASHPOINT:	>115°C.	VAPOUR DENSITY:	Not Available.
EXPLOSION PROPERTIES:	Not Applicable.	VAPOUR PRESSURE:	Not Available.
SOLUBILITY:	Miscible		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not Available.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	None.
MATERIALS TO AVOID:	Oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 (rats) >2000 mg/kg.
ACUTE DERMAL:	LC50 (rabbit) >1550 mg/Kg.
ACUTE INHALATION:	LC50 (rats) >1.08 mg/L
OTHER TOXICITY INFORMATION:	Warning - May cause skin irritation, avoid skin contact. Warning - May cause severe eye irritation, avoid contact with eyes.
<i>ACUTE</i> SWALLOWED:	Single dose oral toxicity is slightly toxic. Rat LD ₅₀ > 3200mg/kg.
EYE:	Severe irritant; reversible within 7 days (Rabbit).
SKIN:	Moderately irritating. Rabbit LD ₅₀ :1550mg/kg
INHALED:	Rat LC ₅₀ :1.08mg/L.
<i>CHRONIC</i>	Animal tests indicate that there is no evidence of effects on the nervous system, no birth defects were noted, no genetic changes were noted.

12. ECOLOGICAL INFORMATION:

Complete information is not yet available.

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Burn the container if circumstances, especially wind direction permit. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose.

14. TRANSPORT INFORMATION:

PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyethersiloxane)
DG CLASS:	9
UN NUMBER:	3082
HAZCHEM:	2X
PACK GROUP:	III

15. REGULATORY INFORMATION:

APPROVED HANDLER:	This product DOES NOT have any Approved Handler, Tracking, or Record Keeping Requirements
EPA Approval Code	HSR002503
See the EPA Website for more details:	www.epa.govt.nz

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

Safety Data Sheet - ORGANOSILICONE (Pennetri8)

1. SUBSTANCE IDENTIFICATION:

Organosilicone (Pennetri8)

SUPPLIER NAME: Primehort Distributors
 SUPPLIER CODE: None
 SUPPLIER ADDRESS: 2180 SH1, Kaiwaka
 SUPPLIER PHONE: 09 431 1000 SUPPLIER FAX: 09 431 1001
 EMERGENCY PHONE:
 CHEMICAL FAMILY: USE: Adjuvant

2. HAZARDS IDENTIFICATION:

Hazard Classes: 6.1D, 6.4A, 6.9B, 9.1B
 Refer to Section 15 for ERMA Requirements

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	CAS NUMBER	CONCENTRATION
Polyether Modified Polysiloxane		100%

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation occurs.
 SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.
 INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
 INGESTION: Seek medical attention.
 NOTES TO DOCTOR: Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: None.
 FLAMMABLE LIMITS: None.
 EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
 THERMAL DECOMPOSITION PRODUCTS:
 SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
 UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately.
 Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Store in original container, tightly closed, away from foodstuffs, seeds, fertilisers and pesticides in a cool, well-ventilated place. Keep out of reach of children. Wash protective clothing daily after work.

Safety Data Sheet - ORGANOSILICONE (Penntri8)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS:	Not established by OSHA.
EYE PROTECTION:	Use chemical splash goggles.
RESPIRATORY PROTECTION:	When work conditions are such that aerosols or mists are generated or may be generated, use a suitable approved respirator for organic gases and vapours.
PROTECTIVE CLOTHING:	Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear
VENTILATION:	General (mechanical) room ventilation is considered satisfactory.
HYGIENE PRECAUTIONS:	Do not eat, drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Clear pale amber liquid	pH:	Not Applicable.
BOILING POINT:	Not Available	SETTING POINT:	Not Available.
DENSITY:	1.00g/mL @ 25°C.	AUTOIGNITION TEMP:	Not Applicable.
DECOMPOSITION TEMP:	Not Available.	VAPOUR DENSITY:	Not Available.
FLASHPOINT:	Not Applicable.	VAPOUR PRESSURE:	Not Available.
EXPLOSION PROPERTIES:	Not Applicable.		
SOLUBILITY:	Soluble		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not Available.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	None.
MATERIALS TO AVOID:	Oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 (rats) >3200 mg/kg.
ACUTE DERMAL:	LD50 (rabbit) >1550 mg/kg.
ACUTE INHALATION:	LD50 (rats) >1.08 mg/kg.
OTHER TOXICITY INFORMATION:	Warning - May cause skin irritation, avoid skin contact. Warning - May cause eye irritation, avoid contact with eyes.

Acute

Swallowed:	Single dose oral toxicity is slightly toxic. Rat LD ₅₀ > 3200mg/kg.
Eye:	Severe irritant; reversible within 7 days. (Rabbit)
Skin:	Moderately irritating. Rabbit LD ₅₀ :1550mg/kg
Inhaled:	Rat LC ₅₀ :1.08mg/L.
Chronic:	Animal tests indicate that there is no evidence of effects on the nervous system, no Birth defects were noted, no genetic changes were noted.

12. ECOLOGICAL INFORMATION:

Complete information is not yet available.

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Burn the container if circumstances, especially wind direction permit. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose.

Safety Data Sheet - ORGANOSILICONE (Penntri8)

14. TRANSPORT INFORMATION:

PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyethersiloxane)
DG CLASS:	9
UN NUMBER:	3082
HAZCHEM:	2Z
PACK GROUP:	III

15. REGULATORY INFORMATION:

APPROVED HANDLER: This product DOES NOT have any Approved Handler, Tracking, or Record Keeping Requirements.

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.