


SuperWetter

1. PRODUCT & COMPANY IDENTIFICATION

Product Identification/Name:	SuperWetter
Product Use:	Agricultural spray wetter/penetrant
Chemical Family	Polyalkyleneoxide modified heptamethyltrisiloxane
Company Identification:	Rainbow & Brown Limited 68A Tallyho Street, Rotorua, New Zealand PO Box 10049, Mail Centre, Rotorua, 3046
Telephone:	+64 7 350 2009
Fax:	+64 7 350 2008
Toll-Free Phone:	0508 299 299
After Hours Emergency	+64 27 498 2574
National Poisons Centre	0800 764 766
Website:	www.rainbowbrown.co.nz
Date of Issue:	26 November 2018
Latest Revision Date:	21 March 2019

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture (HSNO):	6.1E oral – Acutely toxic substance if swallowed (low hazard) 6.1D inhalation – Acutely toxic substance via inhalation (low hazard) 9.1B – Toxic to aquatic life with long lasting effects
Classification of the substance or mixture (GHS):	Acute toxicity: Oral Category 5 Acute toxicity: Inhalation Category 4 Aquatic toxicity (chronic) Category 2
Label Elements:	
Pictogram	

Signal Word	WARNING
Hazard Statements	H303 May be harmful if swallowed H332 Harmful if inhaled H411 Toxic to aquatic life with long lasting effects
Precautionary Statements	
Prevention:	P102 – Keep out of reach of children P261 – Avoid breathing mist/spray P271 – Use only outdoors or in a well-ventilated area. P273 – Avoid release to the environment.
Response:	P304 + P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P312 – Call a POISON CENTER or doctor/physician if you feel unwell. P391 – Collect spillage.
Disposal:	P501 – In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Main Component	CAS Number	Concentration
Polyalkyleneoxide modified heptamethyltrisiloxane	67674-67-3	60-90%
Polyoxyethylene monoallyl glycol	27274-31-3	10-40%
Ingredients not contributing to the hazard	Proprietary	Balance

4. FIRST AID MEASURES

Eye Contact:	Hold eyes open, flush with water for at least 15 minutes. Seek medical attention if irritation develops and persists.
Skin:	Wash skin with plenty of soap and water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.

Ingestion:	Do not induce vomiting unless high doses have been swallowed. Drink plenty of water to dilute. Contact a doctor or Poisons Information Centre (0800 POISON – 0800 764 766)
Inhalation:	Remove to fresh air. If effects persist seek medical attention.
Advice to Doctor:	No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point:	143°C
Flammable Limits:	Not flammable
Extinguishing Media:	Water spray/fog, dry chemical, foam, CO ₂
Fire & Explosion Hazards:	Heating may cause expansion/decomposition leading to rupture of containers. If safe to do so, remove containers from path of fire. Cool heated containers with water spray.
Fire Fighting Equipment:	Vapours of heated material may be toxic. Use self-contained breathing apparatus.
Fire Fighting Instructions:	Addition of water may cause excessive foaming. Do not allow runoff to drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Use appropriate protective clothing and equipment including respiratory protection if there is a risk of inhaling mist/spray.
Spills:	<p>Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release. Avoid release to the environment.</p> <p>Large spills: dike and pump as much as possible to a salvage container. Absorb remaining liquid and any smaller spills with clay, sand or other absorbent material and collect in a waste container. Cover the spill area with water and absorb residue. Spills may be slippery and should be cleaned up promptly.</p> <p>Label salvage and waste containers. Dispose of waste in accordance with Section 13.</p>

7. HANDLING AND STORAGE

Label:	Read the storage/handling precautions on the product label.
Handling:	Avoid contact with skin and eyes. Avoid inhaling mist/spray. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas. Wash clothing after use.
Storage:	Do not store in galvanised or unlined steel containers. Store in tightly closed original container in a cool, dry, well-ventilated and secure area when not in use. Do not store with food, feedstuffs, seeds or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines:	No established workplace exposure standard in NZ.
Engineering Controls:	Normal room ventilation is sufficient.
Respiratory Protection:	No special precautions are necessary for respiratory protection under normal handling conditions. If exposed to heated material or unusually high concentrations of mist/spray, then use a respirator with organic vapour canister.
Skin Protection:	Wear overalls and chemical resistant gloves while mixing or spraying.
Eye Protection:	Wear splash goggles while mixing or spraying.
Dust:	Not applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow liquid
Odour:	No definitive odour
Odour Threshold:	Not determined
Boiling Point:	>150°C at 1.013 hPa
Melting point:	Not applicable
Freezing point:	-50°C (pour point)
pH:	6-8 (1% solution)

Solubility:	Fully soluble in water
Evaporation rate:	Not determined
Flash Point:	143°C
Flammability:	Not flammable or combustible
LEL/UEL:	Not applicable
Vapour Pressure:	<1.33 hPa at 20°C
Decomposition Temperature:	Not determined
Autoignition Temperature:	Not determined
Density:	1.002 g/L at 25°C
Partition Coefficient:	Not determined
Viscosity:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Reactivity:	Not reactive under normal conditions of use.
Conditions to Avoid:	Excessive heat (fire) will lead to accelerated oxidative degeneration.
Incompatibility:	Avoid strong oxidisers. Keep away from food, feedstuffs, seeds and fertilisers.
Hazardous Decomposition Products:	Oxides of carbon, formaldehyde and silicon.
Hazardous Polymerisation:	Will not occur.

11. TOXOLOGICAL INFORMATION

ACUTE EFFECTS:	
Acute Effects: Ingestion:	LD ₅₀ > 2000 mg/kg (rat), May be harmful if swallowed.
Acute Effects: Inhalation:	LC ₅₀ aero = 2 mg/L @ 4 hr exposure (rat). Harmful by inhalation.
Acute Effects: Skin:	LD ₅₀ > 5000 mg/kg (rat). Not expected to be harmful by skin contact. Not expected to be a skin irritant.
Acute Effects: Eye:	Not expected to be an eye irritant.
Sensitisation:	Not expected to be a respiratory or skin sensitiser.
CHRONIC EFFECTS:	

Carcinogenicity, Reproductive Toxicity, or Mutagenicity:	No known carcinogenic, reproductive/developmental or mutagenic effects.
Specific Target Organ Toxicity:	No known effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	LC ₅₀ (rainbow trout) 2.1 mg/L (undiluted product). Toxic to aquatic life with long lasting effects. Avoid losses to the environment wherever possible.
Persistence/degradability:	Not readily biodegradable
Bioaccumulation:	No data
Soil toxicity:	No evidence of toxicity
Terrestrial vertebrates:	LD ₅₀ (rat) >2000 mg/kg
Terrestrial invertebrates:	No evidence of toxicity
Mobility:	No data

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Do not dispose of product down drains or sewers. Dispose via an approved waste disposal contractor.
Container Disposal:	Triple rinse empty containers before disposal. Recycle through an approved recycling facility or dispose of via an approved waste disposal contractor.

14. TRANSPORT INFORMATION

Dangerous Goods Classification:	Classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.
Shipping Name:	Environmentally hazardous substance, liquid, N.O.S. (Polyalkyleneoxide modified heptamethyltrisiloxane)
Class:	9
UN Number:	3082
Packaging group:	III
Marine Pollutant:	Yes
EmS Code:	F-A S-F

15. REGULATORY INFORMATION

ACVM Registration No:	Not applicable
EPA Approval No:	HSR002503
Group Standard assignment	Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017
Certified Handler:	Not required
Tracking:	Not required
Compliance Certificate:	Not required
Quantity that must be secured:	Not required
Emergency Response Plan:	1,000L
Secondary Containment:	1,000L
Signage:	1,000L
Fire Extinguishers:	No fire extinguisher requirement specified.
Training requirements:	All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance in accordance with Clause 4.5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

16. OTHER INFORMATION

Glossary	
AEL	Acceptable Exposure Limit
DT₅₀	Time (days) for 50% loss
EC₅₀	Median effective concentration
EEL	Environmental Exposure Limit
EPA	Environment Protection Authority
GHS	Globally Harmonised System
HSNO	Hazardous Substances & New Organisms Act
Koc	Organic carbon partition coefficient
LFL	Lower Flammability Limit

LC₅₀	Lethal Concentration in air or water for 50% of test organisms
LD₅₀	Lethal Dose for 50% of test organisms
NOEL	No Observable Effect Level
OSHA	Occupational Safety & Health Administration (USA)
OSH or Worksafe	Worksafe New Zealand
PEL	Permissible Exposure Level
Pow	Octanol water partition coefficient (ratio of concentration of a chemical in octanol and water at equilibrium and at a specified temp.)
pH	Measure of acidity/alkalinity of a substance on a 1-14 scale (1=strong acid, 14 = strongly alkali)
STEL	Short Term Exposure Limit
TEL	Tolerable Exposure Limit
TLV	Threshold Limit Value – an exposure limit set by a competent authority
TWA	Time Weighted Average – average concentration of a chemical in air over a total exposure time (usually 8 hours)
UFL	Upper Flammability Limit
WES	Workplace Exposure Standard – set by WorkSafe NZ

The data in this Safety Data Sheet relates only to this product alone, and not to its use in combination with other substances or products. In such circumstances, assuming the combination is permitted (refer to product labels, and contact manufacturer if in doubt), be guided by the most hazardous of the substances involved and observe the more stringent of all hazard controls applicable to the products used.

Date of Safety Data Sheet: 26 November 2018

Reason for Revision: 1.0 Review and update to new legislative requirements.

Further Information: Rainbow & Brown Limited
Toll-Free Phone (0508) 299 299