



AirWetLF

1. PRODUCT & COMPANY IDENTIFICATION

Product Identification: AirWetLF
Product Use: Agricultural spray wetter/penetrant
Chemical Family: Polyalkyleneoxide modified heptamethyltrisiloxane
Company Identification: Rainbow & Brown Limited
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2. HAZARDS IDENTIFICATION

Hazard classes: 6.1E Harmful if swallowed (low)
6.1D Harmful if inhaled (low)
9.1B Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Ingredient</i>	<i>CAS Number</i>	<i>Proportion</i>
Polyalkyleneoxide modified heptamethyltrisiloxane	134180-76-0	50-100%
Ingredients not contributing to hazard	proprietary	balance

4. FIRST AID MEASURES

Eyes: Flush with cold water immediately for at least 15 minutes. Seek medical advice.
Skin: Wash skin well with soap and water. Remove & wash contaminated clothing before re-use.
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: If ill-effects unlikely, but if they occur, move 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

Spills:	Use appropriate protective clothing and equipment. 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 sweep to a waste container. Cover the spill area with water and absorb residue. Spills may be slippery and should be cleaned up promptly. Prevent runoff reaching drains.
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7. HANDLING AND STORAGE

	Read the storage/handling precautions on the product label.
Handling:	Avoid eye, skin & clothing contact. Avoid inhaling spray mist. After work, remove protective clothing and equipment, wash hands before eating, drinking, smoking or using toilet. 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, seed or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines:	None established by OSHA or in Workplace Exposure Standards (WES)
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, use an air 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow liquid
Boiling Point:	>150°C at 1.013hPa
Freezing Point:	-50°C (pour point)
Density:	1002g/L @ 25°C
Flash Point:	143°C
pH:	6-8 (1% solution)
Vapour Pressure:	<1.33hPa @ 20°C
Corrosivity:	Not corrosive
Oxidisation:	Not an oxidiser
Solubility:	Fully soluble in water

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Incompatibility:	Excessive heat (fire) will lead to accelerated oxidative degeneration.
Hazardous Decomposition Products:	Oxides of carbon, formaldehyde and silicon.
Hazardous Polymerization:	Will not occur.

11. TOXOLOGICAL INFORMATION

Potential Health Effects. This section includes the possible adverse health effects that could occur if the substance is not handled as recommended.

Acute Effects-

Eye:	May cause eye irritation.
Skin:	May cause skin irritation in some people. Repeated prolonged skin contact may lead to contact dermatitis.
Ingestion:	May be irritating if swallowed.
Inhalation:	May be irritating by inhalation. (cont)

Acute oral toxicity:	LD50 = >2000mg/kg (rat)
Acute inhalation toxicity:	LC50 aero = 2mg/L @ 4h exposure (rat)
Acute dermal toxicity:	LD50 = >2000mg/kg (rat)
Skin irritation:	Slightly irritant (rabbit)
Eye irritation:	No eye irritation (rabbit)
Sensitisation:	Non-sensitising (guinea pig)
Systemic:	Repeated dose toxicity (rat) 14 days, NOAEL: 300mg/kg
Other Information:	No mutagenic, teratogenic, carcinogenic or adverse reproductive change/neurotoxic effects.

12. ECOLOGICAL INFORMATION

Toxicity to fish:	LC50 = 2.1 mg/L (rainbow trout)
Degradability:	Not readily biodegradable.
Bioaccumulation:	No data.
Soil:	No evidence of soil toxicity.
Terrestrial vertebrates:	No evidence of toxicity.
Terrestrial invertebrates:	No evidence of toxicity.
Environmental effect levels:	No EEL available.
Ecological Notes:	Do not discharge product unmonitored into environment. The ecological data refer to the undiluted product.

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Follow the label directions. Triple rinse empty containers before disposal. Do not burn empty containers that have not been rinsed. Burn in an appropriate incinerator if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitably approved landfill. Do not dispose of this product down drains or sewers. Follow all local, regional and national laws and regulations regarding hazardous waste disposal. Containers may be recycled through an approved recycling facility.
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14. TRANSPORT INFORMATION

Shipping Name:	Environmentally hazardous substance NOS, Polyalkyleneoxide modified heptamethyltrisiloxane		
Class:	9		
UN Number:	3082	Packaging group:	III

15. REGULATORY INFORMATION

Approved Handler: Not applicable
Tracking: Not applicable

16. OTHER INFORMATION

Glossary

AEL	Acceptable Exposure Limit
DT ₅₀	Time (days) for 50% loss
EC ₅₀	Median effective concentration
EEL	Environmental Exposure Limit
ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substances & New Organisms Act
Koc	Organic carbon partition coefficient (ml soil water/g organic carbon)
LFL	Lower Flammability Limit
LC ₅₀	Lethal Concentration in air or water for 50% of test organisms
LD ₅₀	Lethal Dose for 50% of test organisms
NOEL	No Observable Effect Level
OSHA	Occupational Safety & Health Administration (USA)
OSH	Occupational Safety & Health service (NZ)
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 ERMA/OSH

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 manufacturers 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.

Further Information: Rainbow & Brown Limited
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