

Safety Data Sheet

Holdup

Revised: March 2019

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	HOLDUP
Recommended Use:	Plant growth regulator
Company Identification:	Ravensdown Limited
Address:	292 Main South Road Hornby Christchurch
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency:	IN AN EMERGENCY, DIAL 111 – FIRE or POLICE

Section 2: HAZARD IDENTIFICATION

Hazard Classifications:	6.1D, 6.9B, 8.1A, 9.1C, 9.2B, 9.3B
Priority Identifiers:	CORROSIVE HARMFUL ECOTOXIC
Secondary Identifiers:	6.1D = May be harmful if swallowed, inhaled or absorbed through the skin 6.9B = May cause organ damage from repeat oral exposure at high doses 8.1A = This product may be corrosive to metal (aluminium) 9.1C = Harmful to aquatic organisms 9.2B = Toxic to the soil environment 9.3B = Toxic to terrestrial vertebrates

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Mepiquat chloride	24307-26-4	30.5%
Ethephon	16672-87-0	15.5%
Acetic Acid	64-19-7	<2%
Other non-hazardous constituents		To volume

Section 4: FIRST AID MEASURES

First Aid Measures:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
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 on 0800 POISON (0800 764 766). Seek medical assistance immediately.
Skin:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
Eye:	Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flammability:	Not flammable
Hazardous Combustion Products:	If involved in a fire, may evolve toxic fumes
Extinguishing Media:	Water fog, foam, carbon dioxide or dry chemical
Protective Equipment:	Full protective clothing and self-contained breathing apparatus
HAZCHEM Code:	2X
Location Certificate:	Not applicable
Hazardous Atmosphere Zone:	Not applicable
Fire Extinguishers:	Not applicable

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental Precaution:	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling:	Keep out of reach of children. Avoid contact with skin, eyes and inhalation of spray mist. Approved Handler: Not required Tracking: Not required Record Keeping: Records of use in accordance with NZS 8409 Management of Agrichemicals must be kept.
Storage:	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store in accordance with NZS 8409 Management of Agrichemicals This product is subject to signage and secondary containment when stored in quantities of 1000litres or more, either alone or in aggregate with substances of the same hazard classification. More than 1000litres require emergency response plans. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).
Other Information:	Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:	No exposure limits have been assigned for this product by DoL
Protective Equipment:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles, face shield, chemically resistant gloves, cotton overalls buttoned to the neck and wrist, and boots.
Engineering Controls:	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist.
Hygiene Precautions:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear amber liquid
Odour:	Odourless
Specific Gravity:	1.1
Solubility in Water:	Soluble in water
pH:	0.8
Other Information:	(SL) Soluble Concentrate

Section 10: STABILITY AND REACTIVITY

Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Hazardous Polymerisation:	Not known to occur
Materials to Avoid:	Avoid contact with strong acids and oxidising agents. Corrosive to metals.

Section 11: TOXICOLOGICAL INFORMATION

ERMA Classifications:	6.1D, 6.9B, 8.1A
Inhalation:	Acute Toxicity LC ₅₀ (rat) (7hr) >3.2mg/L (mepiquat chloride) Acute Toxicity LC ₅₀ (rat) (4hr) >6.3mg/L (ethephon) Single exposure to vapours is unlikely to be hazardous. When applying this product avoid inhalation of spray mist.
Ingestion:	Acute Toxicity (Oral) LD ₅₀ (rat) 464mg/kg (mepiquat chloride) Acute Toxicity (Oral) LD ₅₀ (rat) 3030mg/kg (ethephon) Amounts swallowed incidental to normal handling are unlikely to cause injury. Large amounts swallowed may cause injury.
Skin:	Acute Toxicity (Dermal) LD ₅₀ (rabbit) >2000mg/kg (mepiquat chloride) Acute Toxicity (Dermal) LD ₅₀ (rabbit) 1560mg/kg (ethephon) May cause skin burns
Eye:	May cause irritation.

Section 12: ECOLOGICAL INFORMATION

ERMA Classifications:	9.1C, 9.2B, 9.3B
Ecotoxicity:	Acute Toxicity (fish) LC ₅₀ (rainbow trout) (96hr) 4300mg/l (mepiquat chloride) LC ₅₀ (rainbow trout) (96hr) 720mg/l (ethephon) Acute Toxicity (daphnia) EC ₅₀ (48hr) 68.5mg/l (mepiquat chloride) EC ₅₀ (48hr) 577mg/l (ethephon) Harmful to fish and other aquatic organisms Acute Toxicity (birds) LD ₅₀ (bobtail quail) >2000mg/kg (mepiquat chloride) LD ₅₀ (bobtail quail) 1072mg/kg (ethephon) Toxic to terrestrial vertebrates Non-toxic to bees
Persistence/Mobility:	Biodegradable. Half-life 10 days

Section 13: DISPOSAL INFORMATION

Product Disposal:	Dispose of product only by using according to label or at an approved landfill
Container Disposal:	Triple rinse container and add rinsate to spray tank. Recycle through the 'AGRECOVERY' program [Ph.0800 247 326. www.agrecovery.co.nz] or if not possible to recycle, burn in an appropriate incinerator if circumstance, such as wind direction and Local Body District Plans allow. Otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

Section 14: TRANSPORT INFORMATION

RAIL/ROAD:	UN Number: 3265 Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (CHLORETHEPHON 15%) DG Class: 8 Packing Group: III Marine Pollutant: MARINE POLLUTANT
Other Information:	Corrosive to aluminium. Do not carry this product on a bus, taxi or other passenger service vehicle Check the latest versions of the Land Transport Rule 45001 and associated Transport of Dangerous Goods on Land [NZS 5433] for additional information on maximum allowable transport quantities [MTQ's], placarding and segregation. Sea and air transport may require further segregation.

Section 15: REGULATORY INFORMATION

ACVM:	Registered pursuant to the ACVM Act 1997, P7071 See www.foodsafety.govt.nz for registration conditions.
ERMA:	Approved pursuant to the HSNO Act 1996, Code: HSR000806 See www.epa.govt.nz for approval controls.

Section 16: OTHER INFORMATION

This SDS supersedes all earlier versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.