


## Hat Trick

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	Hat Trick
<b>Product Code:</b>	7952090 (20 Litres) 7952093 (200 Litres)
<b>Recommended Use:</b>	Selective herbicide for the control of broadleaf weeds in cereals and ryegrass seed crops.
<b>Restrictions of Use:</b>	Refer to Section 15
<b>Company Identification:</b>	Ravensdown Limited
<b>Address:</b>	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
<b>Customer Centre:</b>	0800 100 123
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Phone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency Phone Number:</b>	111 - tell operator what service is needed: Fire, Ambulance or Police
<b>Date of SDS Preparation</b>	9 May 2024

### Section 2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

<b>EPA Approval No:</b>	HSR000353
<b>Pictograms:</b>	
<b>Signal Word:</b>	DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs through prolonged or repeated exposure.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.	H421	Hazardous to soil organisms.
Hazardous to terrestrial vertebrates.	H433	Hazardous to terrestrial vertebrates.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment [if this is not the intended use].
P280	Wear protective clothing [as detailed in SDS Section 8].

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
MCPA	94-74-6	15%
Mecoprop	7085-19-0	60%
Dicamba	1918-00-9	1.87%

### Section 4: FIRST AID MEASURES

<b>Routes of Exposure:</b>	
<b>If in eyes:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>If on skin:</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
<b>If ingested:</b>	Rinse mouth. 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.
<b>If inhaled:</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>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms:</b>	
<b>Eyes:</b>	Causes serious eye damage. Contact can cause corneal burns.
<b>Skin:</b>	May cause an allergic skin reaction.
<b>Ingested:</b>	Harmful if swallowed.
<b>Inhaled:</b>	Not applicable.
<b>Chronic:</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Notes to Doctor:</b>	Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	If involved in a fire, may evolve toxic fumes.
<b>Suitable Extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical
<b>Precautions for firefighters and special protective clothing</b>	Full protective clothing and self-contained breathing apparatus.
<b>HAZCHEM CODE</b>	2X

### Section 6: ACCIDENTIAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

#### Environmental precautions:

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

#### Methods and material for containment and cleaning up:

Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of according to Section 13.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	<p>Read carefully and follow all instructions.</p> <p>Avoid contact with skin, eyes and inhalation of spray mist.</p> <p>Do not breathe fumes, vapours or spray.</p> <p>Wash hands thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> <p>Avoid release to the environment.</p> <p>Wear protective clothing as detailed in Section 8.</p> <p>Record Keeping: Records of use in accordance with NZS 8409 Management of Agrichemicals must be kept.</p>
<b>Storage:</b>	<p>Keep out of reach of children.</p> <p>Store away from incompatible materials listed in Section 10.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed.</p> <p>Store in accordance with NZS 8409 Management of Agrichemicals</p> <p>This product is subject to signage and secondary containment when stored in quantities of 100L or more, either alone or in aggregate with substances of the same hazard classification. More than 100litres require emergency response plans. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).</p>

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

<b>Substance</b>	<b>TWA</b>	<b>STEL</b>
	<b>ppm mg/m<sup>3</sup></b>	<b>ppm mg/m<sup>3</sup></b>

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14<sup>TH</sup> EDITION.

<b>Engineering Controls:</b>	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.
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#### Personal Protection Equipment:



<b>Eyes:</b>	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles.
<b>Skin/Hands:</b>	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear chemically resistant gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Respiratory:</b>	Handle in well ventilated area.
<b>General:</b>	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

<b>Appearance</b>	Liquid
<b>Colour</b>	Clear brown
<b>Odour</b>	Phenolic
<b>Odour Threshold</b>	Not available
<b>pH</b>	10-11
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available

<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Specific Gravity</b>	1.25
<b>Water Solubility</b>	Soluble in water
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available
<b>Other information</b>	(SL) SolubleLiquid

## Section 10: STABILITY AND REACTIVITY

<b>Stability of Substance</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
<b>Possibility of hazardous reactions</b>	Not available
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Avoid contact with strong acids, bases and oxidising agents.
<b>Hazardous Decomposition Products</b>	None known.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Causes severe eye damage. Contact can cause corneal burns.
<b>Skin</b>	May cause an allergic skin reaction.

### Chronic Effects:

<b>Carcinogenicity</b>	Results of long term animal studies show does not cause cancer.
<b>Reproductive Toxicity</b>	Animal studies have shown some effects to reproduction including toxicity to the foetus and effects to sperm and the testes. These are not likely to be apparent in humans under normal exposure conditions.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Causes damage to organs through repeated or prolonged exposure. Excessive exposure may have adverse effects on liver and kidneys.

**Inhalation:** **Acute Toxicity (Oral)** LC<sub>50</sub> (rat) (4hr) >6.36mg/L (MCPA)  
**Acute Toxicity (Oral)** LC<sub>50</sub> (rat) (4hr) >12.5mg/L (Mecoprop)  
**Acute Toxicity (Oral)** LC<sub>50</sub> (rat) (4hr) >9.6mg/L (Dicamba)  
 Single exposure to vapours is unlikely to be hazardous. When applying this product avoid inhalation of spray mist.

**Ingestion:** **Acute Toxicity (Oral)** LD<sub>50</sub> (rat) 1160mg/kg (MCPA)  
**Acute Toxicity (Oral)** LD<sub>50</sub> (rat) 1414mg/kg (Dicamba)  
**Acute Toxicity (Oral)** LD<sub>50</sub> (rat) 1166mg/kg (Mecoprop)  
 Amounts swallowed incidental to normal handling are unlikely to cause injury. Large amounts swallowed may cause injury.

**Skin:** **Acute Toxicity (Dermal)** LD<sub>50</sub> (rabbit) >4000mg/kg (MCPA)  
**Acute Toxicity (Dermal)** LD<sub>50</sub> (rabbit) 900mg/kg (Mecoprop)  
**Acute Toxicity (Dermal)** LD<sub>50</sub> (rabbit) >2000mg/kg (dicamba)  
 Prolonged contact with the skin may cause irritation and sensitisation

## Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.
Hazardous to terrestrial vertebrates.

**Product:**

<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation</b>	No data available.
<b>Mobility in Soil</b>	High mobility in soil. Microbial degradation is the major cause of loss from the soil. Half life 14-28days (MCPA), 7-13days (Mecoprop), <14days (Dicamba)
<b>Other adverse effects</b>	Avoid unintended release into streams and waterways.

**Ecotoxicity:****Acute Toxicity (fish)**

LC<sub>50</sub> (rainbow trout) (96hr) 50-560mg/L (MCPA)  
 LC<sub>50</sub> (rainbow trout) (96hr) 135mg/L (Dicamba)  
 LC<sub>50</sub> (bluegill sunfish) (96hr) 150-220mg/L (Mecoprop)

**Acute Toxicity (daphnia)**

EC<sub>50</sub> (48hr) >100mg/L (MCPA)  
 EC<sub>50</sub> (48hr) 110mg/L (Dicamba)  
 EC<sub>50</sub> (48hr) 420mg/L (Mecoprop)


**Very toxic to fish and other aquatic organisms****Acute Toxicity (birds)**

LD<sub>50</sub> (bobtail quail) 377mg/kg (MCPA)  
 LD<sub>50</sub> (mallard duck) 2000mg/kg (Dicamba)  
 LD<sub>50</sub> (Japanese quail) 740mg/kg (Mecoprop)

**Harmful to terrestrial vertebrates****Acute Toxicity (bees)**

LD<sub>50</sub> 0.104mg/bee (MCPA)  
 LD<sub>50</sub> 0.1mg/bee (Dicamba)  
 LD<sub>50</sub> 0.1mg/bee (Mecoprop)

**Non-toxic to bees****Section 13: DISPOSAL INFORMATION**

Disposal Method:	Triple rinse container and add rinsate to the spray tank. Dispose of product only by using in accordance with label directions, or through Agrecovery Chemical Recovery Service or alternative approved programs.
Container Disposal:	 Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for free recycling. Otherwise crush and bury in an approved landfill. Do not burn. Do not use container for any other purpose.
Precautions or methods to avoid:	Do not allow product or empty container to contaminate any waterway.

**Section 14: TRANSPORT INFORMATION**

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020

**Road, Rail, Sea and Air Transport**

<b>UN No</b>	3082
<b>Class - Primary</b>	9
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPA 15%, Dicamba 1.87%, Mecoprop 60%)
<b>Marine Pollutant</b>	Yes
<b>Special Provisions</b>	If the product's individual container is below 5L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

**Section 15: REGULATORY INFORMATION**

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

