



## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **RIFLE HERBICIDE**  
Chemical Name of Active Ing: 160 g/litre phenmedipham plus 160 g/litre desmedipham  
Product Use: Herbicide  
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd  
Address: Level 1/93 Bolt Road  
Tahunanui, Nelson  
Telephone: +64 3 543 8275  
Email: nzorders@adama.com

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 2 July 2019

### Section 2. Hazards Identification

**This substance is hazardous according to the *Hazardous Substances (Classification) Notice 2017***

**EPA Approval No:** HSR100751

#### Pictograms



Chronic



Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2B	H422	Toxic to the soil environment.	-

Prevention Code	Prevention Statement
P103	Read label before use.
P260	Do not breathe fumes, vapours or spray.
P273	Avoid release to the environment.

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

<b>Storage Code</b>	<b>Storage Statement</b>
None allocated	

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

### Section 3. Composition / Information on Ingredients

Ingredients	Wt %	CAS NUMBER.
Phenmedipham	160g/l	13684-63-4
Desmedipham	Proprietary	Proprietary

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	Remove contaminated clothing. Gently wash skin with water and soap for 15 minutes or until chemical is removed. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	If swallowed do NOT induce vomiting. Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

### Most important symptoms and effects, both acute and delayed

#### Symptoms:

<b>Ingestion:</b>	Not applicable
<b>Inhalation:</b>	Not applicable
<b>Skin:</b>	Not applicable
<b>Eye:</b>	Not applicable
<b>Chronic:</b>	May cause damage to organs through prolonged or repeated exposure.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable or combustible
<b>Hazards from products</b>	In case of fire the following can develop. Oxides of carbon, oxides of nitrogen, oxides of phosphorus, oxides of sulphur and toxic pyrolysis products.
<b>Suitable Extinguishing media</b>	Water jet spray/foam/CO2/dry extinguisher
<b>Precautions for firefighters and special protective</b>	In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire use full protection if necessary.

<b>clothing</b>	
<b>HAZCHEM CODE</b>	<b>2X</b>

## Section 6. Accidental Release Measures

Wear suitable protective clothing, gloves and eye/face protection. Evacuate all unnecessary personnel.

### Environmental precautions

In the event of a major spill, prevent spillage from entering into drains and water courses.

### Methods and material for containment and cleaning up

Contain the spill by damming, recover spilt product by absorbing with sawdust or an inert absorbent material then transfer the recovered spilt material to a properly labelled drum. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Do not breathe fumes, vapours or spray.
- Do not eat, drink or smoke while using.
- Avoid release to the environment.

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store in original, unopened container in cool, dry place, well ventilated place, out of direct sunlight and away from stockfeed or foodstuffs.

## Section 8 Exposure Controls / Personal Protection

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

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

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 2017 9TH EDITION.

### Engineering Controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

### Personal Protection Equipment



<b>Eyes</b>	Safety goggles or face shield.
<b>Hands and Skin</b>	Chemical resistant gloves. Wear suitable protective clothing. Chemical resistant boots.

<b>Respiratory</b>	Respirator is recommended.
<b>General</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash hands thoroughly after handling. Wash clothing before re-using.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	White liquid
<b>Odour</b>	Like oil
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	3,19 (CIPAC MT 75)
<b>1% pH value</b>	4,19 (CIPAC MT 75)
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Non Flammable
<b>Upper and Lower Exposure Limits</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Density</b>	1,0691g/ml (CIPAC MT 3.3)
<b>Solubilities in water</b>	Dispersion
<b>Octanol/water partition coefficient</b>	Not applicable
<b>Auto-ignition Temperature</b>	Not applicable
<b>Viscosity</b>	602 mPas (12 RPM, 40°C) (CIPAC MT 192)
<b>Decomposition point:</b>	Not applicable
<b>Surface tension mN/m:</b>	37,3 mN/m (1% in water at 25°C) EEC method A-5)

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Avoid contact with strong oxidizing agents
<b>Hazardous Decomposition Products</b>	No decomposition when used as directed.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Skin</b>	Not applicable.
<b>Eye</b>	Not applicable.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	May cause damage to organs through prolonged or repeated exposure.

## Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.  
9.2B = Toxic to the soil environment.

<b>Persistence and degradability</b>	Not readily biodegradable
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

Aquatic toxicity: Toxicity to fish: LD50 Oncorhynchus mykiss 6,96 mg/l/96h  
Toxicity to daphnia: EC50 0,248 mg/l/48h  
Toxicity to algae: EbC50 0,568 mg/l/72h  
Ecological toxicity: N.av  
Mobility: N.av  
Accumulation: Concentration in organisms possible \*,\*\*  
Results of PBT assessment: N.av  
Other adverse effects: N.av  
\* Desmedipham \*\* Phenmedipham

Do not allow to enter waterways.

## Section 13. Disposal Considerations

**Disposal Method:** Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle.



### Precautions and methods to avoid:

Avoid contamination of any water supply with product or empty container.

## Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012**



### Road and Rail Transport

UN No: 3082  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (DESMEDIPHAM, PHENMEDIPHAM)

### Air Transport

UN No: 3082  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (DESMEDIPHAM, PHENMEDIPHAM)

### Marine Transport

UN No: 3082  
Class-primary 9  
Packing Group III

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S, (DESMEDIPHAM,PHENMEDIPHAM)

Marine Pollutant

Yes

### **Special Provisions:**

If the product's individual container is below 5L/kg, 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 hazardous according to the Hazardous Substances (Classification) Notice 2017**

EPA Approval Code: HSR100751

HSNO Classification: 6.9B, 9.1B, 9.2B

Refer to EPA website [www.epa.govt.nz](http://www.epa.govt.nz) for controls document - HSR100751

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity/Regulation</b>
HSW(Hazardous substance) Regulations Part 4 Certified Handlers and supervision and training of workers	HSW Reg 4.5 – 4.6 Information, instruction, training and supervision.
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	1000L (9.1B)
Emergency Response Plan (Schedule 5)	1000L (9.1B)
Secondary Containment (Schedule 5)	1000L (9.1B)
Tracking (Schedule 26)	Not required
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A	The substance must not be applied onto or into water.
77A - A restriction has been placed on the application method for this substance.	The method of application of this substance is limited to ground based application only.
<b>Hazardous Property Controls Notice 2017</b>	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
<b>ACVM Act and Regulations</b>	
ACVM Approval No See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration controls	P8582

## **Section 16 Other Information**

### **Glossary**

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.

TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the ADAMA, if further information is required.

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