



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **RIFLE**
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)
0800 734 607 (24hr Emergency Response)**

Date of SDS Preparation: 19 January 2022

Section 2. Hazards Identification

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

EPA Approval No: HSR100751

Pictograms



Signal Word: **Warning**

| HSNO Classification | Hazard Code | Hazard Statement |
|---|-------------|--|
| Specific target organ toxicity (repeated exposure) Category 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |
| Hazardous to the aquatic environment chronic Category 2 | H411 | Toxic to aquatic life with long lasting effects. |
| Hazardous to soil organisms | H422 | Toxic to the soil environment. |

| Prevention Code | Prevention Statement |
|-----------------|--|
| P102 | Keep out of the reach of children. |
| P103 | Read label before use. |
| P260 | Do not breathe fumes, vapours or spray. |
| P264 | Wash hands and exposed skin thoroughly after handling. |
| P273 | Avoid unintended release into the environment. |

| Response Code | Response Statement |
|---------------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P314 | Get medical advice/attention if you feel unwell. |
| P391 | Collect spillage. |

| | |
|---------------------|--------------------------|
| Storage Code | Storage Statement |
| None allocated | |

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|----------------------|---|
| Disposal Code | Disposal Statement |
| 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 | 160 g/L | 13684-63-4 |
| Desmedipham | 160 g/L | 13684-56-5 |

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:

- Ingestion:** Not applicable
Inhalation: Not applicable
Skin: Not applicable
Eye: Not applicable
Chronic: May cause damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

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|---|---|
| Hazard Type | Non-Flammable or combustible |
| Hazards from products | In case of fire the following can develop. Oxides of carbon, oxides of nitrogen, oxides of phosphorus, oxides of sulphur and toxic pyrolysis products. |
| Suitable Extinguishing media | Water jet spray/foam/CO2/dry extinguisher |
| Precautions for firefighters and special protective clothing | 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. |
| HAZCHEM CODE | 2X |

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.
- Use personal protective equipment as specified in Section 8.
- Wash hands and any exposed skin after use.
- Avoid unintended release into 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 ³ | ppm | mg/m ³ |

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

Ventilation required.

Personal Protection Equipment



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|-----------------------|---|
| Eyes | Safety goggles or face shield. |
| Hands and Skin | Chemical resistant gloves. Wear suitable protective clothing. Chemical resistant boots. |
| Respiratory | Respiratory protection is not required if good ventilation is maintained. |
| General | 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

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

Section 10. Stability and Reactivity

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

Section 11 Toxicological Information**Acute Effects:**

| | |
|-------------------|-----------------|
| Swallowed | Not applicable. |
| Dermal | Not applicable. |
| Inhalation | Not applicable. |
| Skin | Not applicable. |
| Eye | Not applicable. |

Chronic Effects:

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

Section 12. Ecotoxicological Information

HSNO Classification: Hazardous to the aquatic environment chronic Category 2, Hazardous to soil organisms.

| | |
|--------------------------------------|---------------------------|
| Persistence and degradability | Not readily biodegradable |
| Bioaccumulation | No data available |
| Mobility in Soil | No data available |
| Other adverse effects | 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

Section 13. Disposal Considerations

Disposal Method: 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 before puncturing and offering for recycling or landfill.



Precautions: Do not allow product or empty container to enter waterways.

Disposal methods to avoid: Do not burn product or container.

Section 14 Transport Information

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



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 (Hazard Classification) Notice 2020**

EPA Approval Code: HSR100751

HSNO Classification: Specific target organ toxicity (repeated exposure) Category 2, Hazardous to the aquatic environment chronic Category 2, Hazardous to soil organisms.

| HSW (HS) Regulations 2017 | Trigger Quantity/Regulation |
|--|---|
| 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) | 1000 L |
| Emergency Response Plan (Schedule 5) | 1000 L |
| Secondary Containment (Schedule 5) | 1000 L |
| Tracking (Schedule 26) | Not required |
| HSNO Additional Controls (Restrictions of use) | |
| 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. |
| Hazardous Property Controls Notice 2017 | |
| HPC Notice Part 1 | Hazardous Property Controls preliminary provisions |
| HPC Notice Part 3 | Hazardous substances in a place other than a workplace |
| HPC Notice Part 4 Subpart A | Substances that are hazardous to the environment: Site and storage controls |
| HPC Notice Part 4 Subpart B | Use of substances that are hazardous to the environment |
| 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 4 Clause 52 | Agrichemicals that are hazardous to the environment must not be applied to water. |
| HPC Notice Part 4 Subpart C | Qualifications required for the application of substances that are hazardous to the environment |
| ACVM Act and Regulations | |
| ACVM Approval No See www.foodsafety.govt.nz for registration controls | P8582 |

Glossary

| | |
|----------------------------|---|
| ACVM | Agricultural Compounds and Veterinary Medicines Act 1997. |
| EC50 | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority. |
| HSNO | Hazardous Substances and New Organisms Act 1996. |
| HSW | Health and Safety at Work Act 2015. |
| HSW (HS) Regulations 2017. | Health and Safety at Work (Hazardous Substances) Regulations 2017. |
| 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. |
| 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
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer:

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