

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Fostonic 80WP**
 Product Use: Fungicide
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Adria Crop Protection Solutions**
 Address: 407 State Highway 16
 Kumeu 0841,
 Auckland

Telephone: +64 9 412 9817
 Fax: +64 9 412 9807
 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)3
0800 764 766 (National Poison Centre)

Date of SDS Preparation: 22 August 2018

Section 2. Hazards Identification

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

EPA Approval No: HSR000650

Pictograms



Corrosive

Signal Word: **DANGER**

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|--|-------------------|
| 6.1E (oral) | H303 | May be harmful if swallowed. | Acute Tox. 5 |
| 8.3A | H318 | Causes serious eye damage. | Eye Corr. 1 |
| 9.1C | H412 | Harmful to aquatic life with long lasting effects. | Aquatic Chronic 3 |

| Prevention Code | Prevention Statement |
|-----------------|--|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective clothing as detailed in 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 if you feel unwell. |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

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

| Disposal Code | Disposal Statement |
|---------------|----------------------|
| P501 | Refer to Section 13. |

Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Content (%w/v) | CAS NUMBER. |
|-------------------|----------------|-------------|
| Fosetyl Aluminium | 78 to 81.5 % | 039148-24-8 |
| Not hazardous | To bal | |

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. | Wash affected areas with soap and water. If skin irritation occurs: Get medical advice/attention. |
| If Swallowed | Rinse mouth. DO NOT INDUCE VOMITING. Obtain emergency medical attention. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately. |
| 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: | May be harmful if swallowed. |
| Inhalation: | Not applicable. |
| Skin: | Not applicable. |
| Eye: | Causes serious eye damage. |
| Chronic: | Not applicable. |

Section 5. Fire Fighting Measures

| | |
|---|--|
| Hazard Type | This product is non-flammable. |
| Hazards from combustion products | When heated to decomposition, emits dangerous fumes. |
| Suitable Extinguishing media | Water. Foam. Carbon dioxide. Dry chemical. |

| | |
|---|--|
| Recommended protective clothing & Precautions for firefighters | Do not enter fire area without proper protective equipment, including respiratory protection. Minimize generation of dust. No naked lights. No smoking. Quantity of dust may be sufficient to burn in open air or explode if confined, when mixed with air and exposed to ignition source. Exercise caution when fighting any chemical fire. |
| HAZCHEM CODE | 2Z |

Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately. Wash contaminated clothing before re-use.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Spill and Disposal procedures:

When mixed with air and exposed to an ignition source, dust may burn in the open air. Spill area may be slippery. On land, sweep or shovel into suitable containers. Dilute residues and flush. Dispose according to Local Regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Keep out of reach of children.
- Read label before use.
- Approved dust or mist respirator should be used if airborne particles are generated when handling this material.
- Proper grounding procedures to avoid static electricity should be followed.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation. No naked lights. No smoking.
- Store in dry, well-ventilated area.

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 / Industrial Hygiene

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment



| | |
|--------------------|--|
| Eyes | Chemical goggles or face shield with safety glasses. |
| Hands | Wear suitable gloves resistant to chemical penetration e.g. nitrile rubber gloves with a minimum thickness of 0.4 mm. |
| Skin | Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure. |
| Respiratory | Where excessive dust may result, wear approved mask. |
| General | Ensure prompt removal from eyes. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. |

Section 9 Physical and Chemical Properties

| | |
|---|----------------------|
| Appearance | Powder |
| Colour | Whitish Grey |
| Odour | Characteristic odour |
| Odour Threshold | Not available |
| pH | 4 |
| Boiling Point | Not available |
| Melting Point | Not available |
| Freezing Point | Not available |
| Flash Point | Not available |
| Flammability | Not flammable |
| Upper and Lower Explosive Limits | Not available |
| Vapour Pressure | Not available |
| Vapour Density | Not available |
| Density | 0.59 |
| Water Solubility | Not available |
| Partition Coefficient: | Not available |
| Ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity | Not available |
| Particle Characteristics | Not available |

Section 10. Stability and Reactivity

| | |
|---|--|
| Stability of Substance | This product is stable under normal conditions. |
| Possibility of hazardous reactions | When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. |
| Conditions to Avoid | None known. |
| Incompatible Materials | Avoid contact with: Strong oxidizing agents. |
| Hazardous Decomposition Products | Thermal decomposition generates: Carbon monoxide. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|------------------------------|
| Swallowed | May be harmful if swallowed. |
| Dermal | Not applicable. |
| Inhalation | Not applicable. |
| Eye | Causes serious eye damage. |
| Skin | 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 | Not applicable. |

Acute Toxicity -

| Chemical Name | LD50 (Oral) | LD50 (Dermal) | LC50 (inhalation) |
|-----------------------------------|--------------------|----------------------|-------------------------|
| Fosetyl Aluminium (39148-24-8) | 2680mg/kg (rabbit) | >2000mg/kg (Rabbits) | >5200 mg/l- 4h(rats) |

Section 12. Ecotoxicological Information

| | |
|---------------------------------------|--|
| Ecological effects information | 9.1C = Harmful to aquatic life with long lasting effects. |
| Persistence and degradability | No |
| Bioaccumulation | No |
| Mobility in Soil | No data available |
| Other adverse effects | No data available |
| Acute fish toxicity: | Acute: LC50 (96 h) Oncorhynchus mykiss Rainbow trout, donaldson trout = 75.8mg/l. Chronic: NOEC (21days) = Salmo gairdneri (Fish, estuary, fresh water) = 0.93mg/l. |
| Toxicity to algae: | Acute: EC50 (90hrs) = Scenedesmus pannonicus (Algae) = 21.9mg/l Chronic: NOEL (14 days) Lemna gibba Inflated duckweed = 20.4 mg/l |
| Precautions: | Do not allow to enter waterways. |

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

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

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

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

EPA Approval Code: HSR000650

HSNO Classification: 6.1E (oral), 8.3A, 9.1C

| HSW (HS) Regulations 2017 | Trigger Quantity |
|--|---|
| Certified Handlers | Not required |
| Location Certificate | Not required |
| Signage Trigger Quantities (Schedule 3) | 1000L (8.3A, 9.1C) |
| Emergency Response Plan (Schedule 5) | 1000L (9.1C) |
| Secondary Containment (Schedule 5) | 1000L (9.1C) |
| Tracking (Schedule 26) | Not required |
| For all further controls | Refer to EPA www.epa.govt.nz for controls document - HSR000650 |
| HSNO Additional Controls (Restrictions of use) | |
| 77A | The substance must not be applied onto or into water. |
| Hazardous Property Controls Notice 2017 | |
| 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 Subpart A | Site and storage controls for class 9 substances |
| ACVM Act and Regulations | |
| ACVM Approval No See www.foodsafety.govt.nz for registration controls | P5746 |

Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Glossary

| | |
|------------------|---|
| EC ₅₀ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| LC ₅₀ | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD ₅₀ | 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 Adria, if further information is required.

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