

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Novall 20WG**
 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: 3 September 2018

Section 2. Hazards Identification

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

EPA Approval No: HSR000497

Pictograms



Irritant Chronic

Signal Word: **DANGER**

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|---|-------------------|
| 6.1E (oral) | H303 | May be harmful if swallowed. | Acute Tox. 5 |
| 6.1E (inh) | H333 | May be harmful if inhaled. | Acute Tox. 5 |
| 6.3B | H316 | Causes mild skin irritation. | Skin Irrit. 3 |
| 6.4A | H319 | Causes serious eye irritation. | Eye Irrit. 2A |
| 6.7B | H351 | Suspected of causing cancer. | Carc. 2 |
| 6.8A | H360 | May damage fertility or the unborn child. | Repr. 1A |
| 6.9A | H372 | Causes damage to organs through prolonged or repeated exposure. | STOT RE 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. |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective clothing as detailed in Section 8. |
| P281 | Use personal protective equipment as required. |

| 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. |
| P304 + P312 | IF INHALED: 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. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| P332 + P313 | If skin irritation occurs: Get medical advice/ attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

| Storage Code | Storage Statement |
|--------------|-------------------|
| P405 | Store locked up. |

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

Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Content (%w/v) | CAS NUMBER. |
|---------------|----------------|-------------|
| Flusilazole | 200 g/kg | 85509-19-9 |
| 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 with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. |
| If Swallowed | If swallowed do NOT induce vomiting. 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: May be harmful if inhaled.

Skin: Causes mild skin irritation.
Eye: Causes serious eye irritation.
Chronic: Suspected of causing cancer. May damage fertility or the unborn child.
Causes damage to organs through repeated or prolonged exposure.

Treatment: Treat symptomatically.

Section 5. Fire Fighting Measures

| | |
|---|--|
| Hazard Type | This product is not flammable. |
| Hazards from combustion products | There is a possibility of generating hazardous gases during a fire due to presence of F and CN groups, but material will not burn vigorously. The material poses no explosion hazard in granular form. |
| Suitable Extinguishing media | Extinguish warehouse and factory fires using dry chemical extinguisher, alcohol-resistant foam, carbon dioxide or fine-water spray. DO NOT use direct jet of water. |
| Recommended protective clothing & Precautions for firefighters | Wear SCBA and chemical-protective clothing. |
| HAZCHEM CODE | 1Z |

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.

Environmental precautions:

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

Spill and Disposal procedures:

Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to Local Council regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Ventilation required.
- Cleaning water should be disposed of in appropriate manner.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in original container tightly closed and in a locked, cool, dry, ventilated area away from foodstuffs, fertilisers and seeds.
- Protect from extreme temperatures.

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 adequate ventilation.

Personal Protection Equipment

| | |
|--------------------|--|
| Eyes | Safety goggles with side-shields. |
| 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 | Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles. |
| General | Avoid contact with skin and eyes and inhalation of dust from concentrate or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work. |

Section 9**Physical and Chemical Properties**

| | |
|---|----------------|
| Appearance | Powder |
| Colour | Brown |
| Odour | Characteristic |
| Odour Threshold | Not available |
| pH | 7.0 |
| Boiling Point | Not available |
| Melting Point | Not available |
| Freezing Point | Not available |
| Flash Point | Not available |
| Flammability | Not available |
| Upper and Lower Explosive Limits | Not available |
| Vapour Pressure | Not available |
| Vapour Density | Not available |
| Density | Not available |
| 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 | None known. |
| Conditions to Avoid | Heat and light. |
| Incompatible Materials | None known. |
| Hazardous Decomposition Products | None known. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|--------------------------------|
| Swallowed | May be harmful if swallowed. |
| Dermal | Not applicable. |
| Inhalation | May be harmful if inhaled. |
| Eye | Causes serious eye irritation. |
| Skin | Causes mild skin irritation. |

Chronic Effects:

| | |
|-------------------------------|--|
| Carcinogenicity | Suspected of causing cancer. |
| Reproductive Toxicity | May damage fertility or the unborn child. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Cause damage to organs through prolonged or repeated exposure. |

Acute Toxicity -

| Chemical Name | LD50 (Oral) | LD50 (Dermal) | LC50 (inhalation) |
|-----------------------------|---|----------------------|--------------------------|
| Flusilazole (85509-19-9) | 1100mg/kg(Male rat) 674mg/kg(Female rat) | >2000mg/kg (rabbit) | 5.0 mg/L (rat) |

Section 12. Ecotoxicological Information

| | |
|---------------------------------------|--|
| Ecological effects information | 9.1C = Harmful to aquatic life with long lasting effects. |
| Persistence and degradability | No data available |
| Bioaccumulation | No data available |
| Mobility in Soil | No data available |
| Other adverse effects | No data available |
| Acute fish toxicity: | LC50 (96 h) for rainbow trout: 1.2mg/l; bluegill sunfish: 1.7mg/l. |
| Toxicity for daphnia: | LC50 (48 h): 3.4mg/l. |
| Toxicity to algae: | Not available. |
| Precautions: | Do not allow to enter waterways. |

Section 13. Disposal Considerations

Disposal Method:

Triple rinse packaging and add residue to spray tank. Burn, if circumstances, especially wind direction permit otherwise bury in approved landfill.



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: HSR000497

HSNO Classification: 6.1E (oral, inh), 6.3B, 6.4A, 6.7B, 6.8A, 6.9A, 9.1C

| HSW (HS) Regulations 2017 | Trigger Quantity |
|--|---|
| Certified Handlers | Not required |
| Location Certificate | Not required |
| Signage Trigger Quantities (Schedule 3) | 1000kg (9.1C) |
| Emergency Response Plan (Schedule 5) | 1000kg (9.1C) |
| Secondary Containment (Schedule 5) | 1000kg (9.1C) |
| Tracking (Schedule 26) | Not required |
| For all further controls | Refer to EPA www.epa.govt.nz for controls document - HSR000497 |
| 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 | P7652 |

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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Adria, if further information is required.

Issue Date: 3 September 2018 Review Date: 3 September 2023