

## SAFETY DATA SHEET

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

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

Product: **Boscalo**  
Product Use: Fungicide  
Restriction of Use: Refer to Section 15

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)**  
**0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 2 May 2025

### Section 2. Hazards Identification

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

EPA Approval No: HSR101536

#### Pictograms



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs through prolonged or repeated exposure.
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.

Prevention Code	Prevention Statement
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.
P273	Avoid release to 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	

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

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (w/v)	CAS NUMBER.
Boscalid	23.94-26.42%	188425-85-6
Pyraclostrobin	12.03-13.57%	175013-18-0
Non-hazardous ingredients	To bal	

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for at least 15 minutes under running water holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Get medical advice/attention.
If on Skin	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
If Swallowed	Immediately rinse mouth and then drink 200-300 ml of water. Seek medical attention immediately. For advice, contact the Poison centre immediately.
If Inhaled	Remove person to fresh air. 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:** The most important symptoms and effects are described in section 11. Further important symptoms and effects are so far not known.

**Treatment:** Treat symptomatically. There is no specific antidote.

### Section 5. Fire Fighting Measures

<b>Hazards from products</b>	In the event of fire the following may be released: , Hydrogen chloride (HCl), Carbon monoxide (CO), Nitrogen oxides (NOx), organochloric compounds, sulphur oxides.
<b>Suitable Extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Recommended protective clothing & Precautions for firefighters**

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**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. Avoid dust formation.

**Environmental precautions:**

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

**Spill and Disposal procedures:**

Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

Dispose of waste safely, according to Local Council regulations.

**Section 7. Handling and Storage****Precautions for Handling:**

- Read carefully and follow all instructions.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Avoid contact with skin and eyes.
- When using do not eat, drink or smoke.
- Keep away from: sparks, open flame and direct sunlight.
- Prevent electrostatic charge.

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Protect against moisture.
- Protect from temperatures above 50°C

**Section 8 Exposure Controls / Personal Protection****WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA ppm	mg/m <sup>3</sup>	STEL ppm	mg/m <sup>3</sup>
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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 FEB 2025 15TH EDITION.

## Engineering Controls / Industrial Hygiene

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## Personal Protection Equipment



<b>Eyes</b>	Wear safety goggles with side-shields (frame goggles)
<b>Hands</b>	Suitable chemical resistant safety gloves also with prolonged, direct contact e.g. Nitrile rubber, chloroprene rubber, butyl rubber.
<b>Skin</b>	Body protection must be chosen depending on activity and possible exposure e.g. Apron, protecting boots, chemical protection suit.
<b>Respiratory</b>	Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles.
<b>General</b>	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Granules
<b>Colour</b>	Brown
<b>Odour</b>	Smoky
<b>Odour Threshold</b>	No data available
<b>pH</b>	6 - 8
<b>Boiling/Melting Point</b>	Not applicable
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Not highly flammable
<b>Upper and Lower Explosive Limits</b>	No data available
<b>Vapour Pressure</b>	Negligible
<b>Vapour Density</b>	No data available
<b>Density</b>	NA
<b>Water Solubility</b>	Dispersible in water
<b>Partition Coefficient:</b>	Not applicable
<b>Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	Not applicable
<b>Surface tension</b>	No data available

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to Avoid</b>	High temperature.
<b>Incompatible Materials</b>	Strong acids, strong bases, strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	No hazardous decomposition products if stored and handled as prescribed/indicated.

## Section 11 Toxicological Information

### Acute Effects (Based on the active ingredients):

<b>Swallowed</b>	Not applicable. Boscalid: rats >5000 mg/kg Pyraclostrobin: mice (male) 449, mice (female) 453, rats >5000 mg/kg
<b>Dermal</b>	Not applicable. Boscalid: rats >2000 mg/kg Pyraclostrobin: rats >2000 mg/kg
<b>Inhalation</b>	Not applicable. Boscalid: >6.7 mg/L Pyraclostrobin: rats 0.58 (4 h) mg/L
<b>Eye</b>	Not applicable. Boscalid: Not an irritant (rabbits) Pyraclostrobin: Not an irritant (rabbits)
<b>Skin</b>	Not applicable. Boscalid: Not an irritant (rabbits) Pyraclostrobin: Irritant (rabbits)

### 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>	Causes damage to organs through prolonged or repeated exposure.

## Section 12. Ecotoxicological Information

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

<b>Ecological effects information</b>	No relevant data found.
<b>Persistence and degradability</b>	Boscalid: Not readily biodegradable. Pyraclostrobin: Not readily biodegradable.
<b>Bioaccumulation</b>	Boscalid: Does not accumulate in organisms. Pyraclostrobin: Accumulation in organisms is not to be expected.
<b>Mobility in Soil</b>	Boscalid: Following exposure to soil, adsorption to solid particles is probable, therefore contamination of groundwater is not expected. Pyraclostrobin: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.
<b>Other adverse effects</b>	
<b>Acute fish toxicity:</b>	Boscalid: LC <sub>50</sub> (96 h) for rainbow trout 2.7 mg/l. Pyraclostrobin: LC <sub>50</sub> (96 h) for rainbow trout 0.0062, sheepshead minnows 0.0769, carp 0.0121-0.0252, bluegill sunfish 0.0196-0.0335 mg/l.
<b>Toxicity for daphnia:</b>	Boscalid: EC <sub>50</sub> (48 h) 5.33 mg/l. Pyraclostrobin: EC <sub>50</sub> (48 h) 0.016 mg/l.
<b>Toxicity to algae:</b>	Boscalid: ErC <sub>50</sub> (96 h) for <i>Pseudokirchneriella subcapitata</i> 3.75 mg/l. Pyraclostrobin: ErC <sub>50</sub> (96 h) for <i>Pseudokirchneriella subcapitata</i> >0.843, <i>Navicula pelliculosa</i> >0.0139, <i>Anabaena flos-aquae</i> 1.41, <i>Skeletonema costatum</i> >0.09 mg/l.
<b>Precautions:</b>	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 a 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 classified as a Dangerous Good for transport in NZ; NZS 5433:2020**

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

<b>UN No</b>	3077
<b>Class - Primary</b>	9
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	<b>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BOSCALID, PYRACLOSTROBIN)</b>
<b>Marine Pollutant</b>	YES
<b>Special Provisions-Limited Quantities</b>	NA

### Section 15 Regulatory Information

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

EPA Approval Code: HSR101536.

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100kg
Emergency Response Plan	100kg
Secondary Containment	100kg
Restriction of Use	Only use for the intended purpose.
ACVM Approval No	P10086

### 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 <sub>50</sub>	Median effective concentration.	
EEL	Environmental Exposure Limit.	
EPA	Environmental Protection Authority	
HSNO	Hazardous Substances and New Organisms.	
HSW	Health and Safety at Work.	
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms	inhaling or
ingesting it.		
LD <sub>50</sub>	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 FEB 2025 15<sup>th</sup> edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

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

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