

# SAFETY DATA SHEET

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

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

Product: **Ivento**  
 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)**

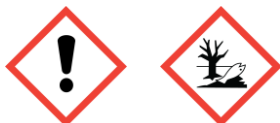
Date of SDS Preparation: 11 July 2023

**Section 2. Hazards Identification**

**Classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020**

EPA Approval number: **HSR101515**

**Pictograms**



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P261	Avoid breathing dust, fumes, gas, mist, vapours or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
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.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

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.
Cyazofamid	40%	120116-88-3
Propylene glycol	5%	57-55-6
Non-hazardous ingredients	To bal	

### Section 4. First Aid Measures

Do NOT induce vomiting. If contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water.

Routes of Exposure:

If in Eyes	Rinse cautiously with water for at least 15 minutes under running water holding eyelids open. Get medical advice/attention.
If on Skin	Remove affected clothing and wash all exposed skin area with running water. If skin irritation or rash occurs: Get medical advice/attention.
If Swallowed	Do NOT induce vomiting if swallowed. Seek medical attention immediately. For advice, contact the Poison centre 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: May cause an allergic skin reaction.

**Treatment:** Treat according to symptoms (decontamination, vital functions). No known specific antidote.

### Section 5. Fire Fighting Measures

<b>Hazards from products</b>	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
<b>Suitable Extinguishing media</b>	Dry chemicals, carbon dioxide, alcohol foam or water spray.

<b>Recommended protective clothing &amp; Precautions for firefighters</b>	Use self-contained breathing apparatus and complete personal protective equipment.
<b>HAZCHEM CODE</b>	<b>3Z</b>

## 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:

Small amounts spilled: Remove with inert absorbent (e.g. sand or vermiculite), and place in a closed container and hold for waste disposal. Wash spill site with soap and plenty of water after material pick-up is complete.

Large amounts spilled: Remove with vacuum truck. Wash spill site with soap and plenty of water after material pick-up is complete.

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. Dispose of waste safely, according to Local Council regulations.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read carefully and follow all instructions.
- Avoid breathing dust, fumes, gas, mist, vapours or spray.
- Contaminated work clothing should not be allowed out of the workplace.
- 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.
- Protect against moisture.
- Protect from temperatures above 50°C

## 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>

Propane-1,2-diol, Vapour and particulates

[57-55-6]

150 474

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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 APRIL 2022 13TH 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>	Gloves material, e.g. outside: rubber, vinyl chloride resin; inside: cotton, rayon.
<b>Skin</b>	Wear suitable working clothes, hand protection and boots.
<b>Respiratory</b>	Appropriate respirator for organic compound vapour.
<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>	Liquid
<b>Colour</b>	Off white liquid
<b>Odour</b>	Characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	5.5 – 7.5
<b>Boiling/Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Flammability</b>	No data available
<b>Upper and Lower Explosive Limits</b>	No data available
<b>Vapour Pressure</b>	No data available
<b>Vapour Density</b>	No data available
<b>Density</b>	Approx. 1.1 – 1.2
<b>Water Solubility</b>	Soluble in water
<b>Partition Coefficient:</b>	No data available
<b>Ignition Temperature</b>	Does not burn
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Particle Characteristics</b>	No data available
<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>	This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

### Section 11 Toxicological Information

**Acute Effects (Based on the active ingredient):**

<b>Swallowed</b>	This product is not classified as acutely toxic. LD50 = rats >5000 mg/kg
<b>Dermal</b>	This product is not classified as acutely toxic. LD50 = rats >2000 mg/kg
<b>Inhalation</b>	This product is not classified as acutely toxic. LC50 = rats >5.5 mg/L
<b>Eye</b>	This product is not classified as an eye irritant/corrosive.
<b>Skin</b>	May cause an allergic skin reaction

**Chronic Effects:**

<b>Carcinogenicity</b>	This product is not classified as carcinogenic.
<b>Reproductive Toxicity</b>	This product is not classified as toxic for reproduction.
<b>Germ Cell Mutagenicity</b>	This product is not classified as mutagenic.
<b>Aspiration</b>	This product is not classified as Asp Tox.
<b>STOT/SE</b>	This product is not classified as STOT SE.
<b>STOT/RE</b>	This product is not classified as STOT RE.

**Section 12. Ecotoxicological Information**

Very toxic to aquatic life.

Based on the active ingredient:

<b>Ecological effects information</b>	No relevant data found.
<b>Persistence and degradability</b>	Not readily biodegradable (by OECD criteria).
<b>Bioaccumulation</b>	Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available
<b>Acute fish toxicity:</b>	LC <sub>50</sub> (96 h) Rainbow trout >0.51 mg/l
<b>Toxicity for daphnia:</b>	EC <sub>50</sub> (48 h) >0.14 mg/l.
<b>Toxicity to algae:</b>	EbC <sub>50</sub> for <i>Selenastrum capricornutum</i> 0.025 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>	3082
<b>Class - Primary</b>	9
<b>Packing Group</b>	III

Product Name: Ivento

Date of SDS: 11 July 2023

<b>Proper Shipping Name</b>	<b>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYAZOFAMID)</b>
<b>Marine Pollutant</b>	YES
<b>Special Provisions-Limited Quantities</b>	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 classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval number: **HSR101515**

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Certified Handlers	Not required
Signage Trigger Quantities	100kg
Emergency Response Plan	100kg
Secondary Containment	100kg
Tracking	Not required
For all further controls	Refer to EPA <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for controls document – HSR101515
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A – Application method restrictions.	The application of the substance is limited to ground-based application methods only. This substance must be applied with a nozzle set to provide a coarse quality spray.
77A - Buffer zone requirements	This substance must not be applied within 4 m of a downwind water body. A water body includes modified water courses such as reservoirs, irrigation canals, water-supply races, canals for the supply of water for electricity generation or farm drainage canals, as well as natural water bodies.
HPC Notice Part 4 Subpart B - Use of ecotoxic substances in any place	Variation: The maximum application rate of this substance is 80 g cyazofamid/ha (equating to 200 mL of Ivento/ha).  This substance must not be applied to the same area more than six times per year, with a minimum seven days interval period between applications.
<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	P9970

## Section 16 Other Information

### Glossary

Cat	Category
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 April 2022 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

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Please contact the New Zealand distributor, if further information is required.

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