

# SAFETY DATA SHEET



## BLADEx<sup>®</sup> SC

Date of Issue: 2nd April 2019  
Replaces ES369 Issued August 2014

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** Cyanazine  
**Recommended use:** Selective Herbicide  
**Supplier:** Etec Crop Solutions Ltd  
PO Box 51584  
Pakuranga 240  
Auckland  
**Emergency telephone number:** 0800 Poison (0800 764 766) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** HSNO Classes: 6.1D, 6.4A, 6.8B, 6.9A, 9.1A, 9.3B  
**Required identification Details:** May be harmful if swallowed.  
May cause eye irritation.  
May cause reproductive/development damage from repeated oral exposure at high doses.  
May cause kidney damage from repeated oral exposure at high doses.  
Very toxic to fish/aquatic organisms; may cause long-term adverse effects in aquatic environment.  
Toxic to terrestrial vertebrates.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Cyanazine	21725-46-2	50%
Ethanediol	107-21-1	10%

### 4. FIRST-AID MEASURES

#### Description of necessary first aid measures:

**General:** Avoid contact with skin, eyes and clothing. Remove contaminated clothing. If difficulties occur, obtain medical attention. Show container, label and/or MSDS to physician.

#### Effects and symptoms

##### First-aid measures

**Inhalation:** If inhaled, move the victim to fresh air immediately. Keep patient calm. Obtain medical attention.

**Ingestion:** Rinse mouth immediately then drink plenty of water. For

advice contact the National Poisons Centre 0800 Poison (0800 764 766)

Wash with plenty of soap and water.

**Skin contact:**

**Eye contact:**

Hold eyelids open and immediately flush eyes with flowing water for at least 15 minutes. Get prompt medical attention.

**Notes to a physician:**

Treat symptomatically. Symptoms: numbness and tingling of hands and feet, lung oedema, convulsions.  
Treatment: Treat according to symptoms (decontamination, vital functions). No known specific antidote.

**Workplace facilities:**

**Required Instructions:**

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## 5. FIRE-FIGHTING MEASURES

In the event of a large fire, close off area at risk downwind.

**HAZCHEM Code:**

2Z

**Extinguishing media :**

Water spray, water fog), foam, carbon dioxide, extinguishing powder. Unsuitable: Full water jet.

**Hazardous thermal (de)composition products:**

In the event of fire, formation of further toxic decomposition products must be anticipated. Hydrogen chloride gas, vapours and fogs; nitrous gases, nitric acid decomposition products; hydrogen cyanide vapours, cyanide decomposition products.

Self-contained breathing apparatus required and chemical protective clothing.

In the case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect separately contaminated extinguishing water; do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Clear area of unnecessary personnel. Use appropriate protective equipment. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

**Environmental precautions:**

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

**Methods for cleaning up:**

Small spills: Pick up with suitable absorbent material (eg. sand, sawdust, general-purpose binder) and place in covered containers that can be labelled and sealed for proper disposal (see 'Disposal'). Clean the spill area and contaminated objects thoroughly with water and detergent. Contain and absorb this rinsate with inert absorbents and place into the same covered container as the spilled material. Spills to the soil can be shovelled directly into covered containers for disposal. Dispose of absorbed material in accordance with local regulations.

Large spill: Dike spillage and pump off produce.

**7. HANDLING AND STORAGE**

**Handling:** No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

**Approved Handler:** Approved handlers are not required for this product except during use. This product must be under the control of an approved handler if it is being applied in a wide dispersive manner or by a commercial contractor. Refer to the product label for handling precautions and directions for use.

**Storage:** Store in original container, tightly closed. Protect from frost and direct sunlight. Segregate from foods and animal feeds. Storage duration 24 months.

Protect from temperatures <0°C and >40°C

**Storage site requirements:**

Stores containing more than 100 litres of this product require emergency response plans and secondary containment systems and are subject to signage. Note: When stored with substances of the same hazard, the aggregate quantity must be considered.

**AGGREGATE STORAGE VOLUME THRESHHOLDS:**

When stored with substances of the same hazard the aggregate quantity must be considered. For details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.

Location Certification*	Hazardous Atmosphere zone	Fire Extinguishers	Signage [Hazard Class & Emergency Action	Emergency Information	Emergency Response Plan	Secondary Containment
N.A.	N.A.	N.A.	100 litres	100 litres	100 litres	100 litres

\*Note. Farms  $\geq 4$  ha are exempt but with controls.

**DO NOT STORE OR LOAD WITH:****SEGREGATE FROM:**

Class 1 Explosives  
 Class 5.1 Oxidising Agent  
 Class 5.2 Organic Peroxide  
 Foodstuffs or Food Containers

**Segregation:** In store separate by at least 5 metres, in transport separate by at least 3 metres. In both cases horizontally. On vehicles a segregation device may be used. Check the Land Transport Rule. Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional Segregation. Refer to NZS5433 Sea Segregation for details.

**RECORD KEEPING**

Records must be kept.

NOTE: Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZ8409.

**Protection  
against fire  
and  
explosive:**

No special precautions necessary.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Workplace Exposure Guidelines**

Workplace boundary limit: Ethanediol: 26 mg/m<sup>3</sup>

#### **Workplace exposure standards:**

#### **Application in the workplace:**

#### **Exposure Standards outside: The workplace:**

### **Engineering measures**

#### **Hierarchy of controls:**

#### **Exposure control measures:**

#### **No Hazard indication:**

#### **Ventilation specification:**

### **Personal Protective Equipment**

#### **Detail specifications for equipment:**

#### **Respiratory system:**

Respiratory protection in case of vapour/aerosol release.  
Particle filter Type P2 or FFP2 (medium efficiency for solid and liquid particles eg. EN143, 149)

#### **Skin and body:**

Chosen depending on activity and possible exposure, eg. apron, protective boots, chemical protection suit (according to DIN-EN 465).

#### **Hands:**

Suitable chemical resistant safety gloves (EN374) also with prolonged, direct contact (Recommended: Protect index 6, corresponding > 480 minutes of permeation time according to EN374). eg. nitrile rubber (0.4mm), chloroprene rubber (0.5mm), polyvinylchloride (0.7 mm) and other.

#### **Eyes:**

Tightly fitting safety goggles (splash goggles). (EN166).

#### **General hygiene:**

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final- consumer packing. Avoid contact with skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from

food, drink and animal feeding stuffs. No eating, drinking smoking or tobacco use at the place of work, hands and/or face should be washed before breaks and at the end of the shift.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Colour:</b>	Light brown
<b>Odour:</b>	Mild
<b>pH:</b>	6.8 @ 20°C
<b>Vapour Pressure:</b>	
<b>Vapour Density:</b>	
<b>Boiling Point:</b>	
<b>Freezing/melting point:</b>	
<b>Solubility:</b>	dispersible
<b>Specific gravity or density:</b>	
<b>Density:</b>	
<b>Setting Point:</b>	
<b>Information for flammable material including:</b>	
- Lower and upper flammability limits	
- Flashpoint (state test Method)	
<b>Auto – ignition Temperature:</b>	No
<b>Octanol/water partition coefficient:</b>	
<b>Decomposition Temp:</b>	
<b>Explosion properties:</b>	
<b>Oxidation properties:</b>	

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## 10. STABILITY AND REACTIVITY

<b>Thermal Decomposition:</b>	No decomposition if stored and handled as prescribed/indicated
<b>Conditions to avoid:</b>	
<b>Materials to avoid:</b>	None known.

*product)*

<b>Hazardous decomposition Products:</b>	(Result of fire) nitrous gases, nitric acid decomposition products, hydrogen chloride gas, vapours and fogs, hydrogen cyanide gas, cyanide decomposition products.
<b>Substances to avoid:</b>	None known
<b>Specific Data:</b>	
<b>Hazardous reactions :</b>	No hazardous reactions known.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity – Oral :</b>	LD <sub>50</sub> Rat, male: 1015 mg/kg; LD <sub>50</sub> Rat, female: 442 mg/kg
<b>Acute toxicity - Dermal :</b>	LD <sub>50</sub> Rat: >4000 mg/Kg
<b>Acute toxicity – Inhalation:</b>	LC <sub>50</sub> Rat: >2.46 mg/L
<b>Skin irritation :</b>	Primary skin irritation/rabbit: non-irritant
<b>Mucous membrane:</b>	Primary irritations, rabbit: non-irritant
<b>Sensitization :</b>	Guinea pig: Skin sensitizing effects were not observed in animal studies. NOEL (2 y) rat: 12 mg/kg diet NOEL (2 y) dog: 25 mg/kg diet
	Misuse may be harmful to health.

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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity - Information on Cyanazine Fish</b>	Oncorhynchus mykiss LC <sub>50</sub> (96 h): 9.3 mg/L
<b>Aquatic invertebrates</b>	Daphnia magna LC <sub>50</sub> (48 h): 42 mg/L
<b>Aquatic plants</b>	Algae; Selenastrum capricornutum EC <sub>50</sub> (96 h): 0.02 mg/L
<b>Bees</b>	Not toxic to bees.
<b>Birds</b>	Mallard duck LD <sub>50</sub> (oral) >2000 mg/kg

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## 13. DISPOSAL CONSIDERATIONS

<b>Methods of disposal :</b>	Container: Triple rinse container and add rinsate to spray tank. Dispose of container at an approved landfill or Agrecovery Depot. Otherwise, either burn rinsed container in a suitable incinerator if circumstances, especially wind direction, allow, or crush and bury in a suitable landfill. Product: Dispose of product only by using according to label or at an approved landfill. Do NOT burn product. Do NOT contaminate surface water with chemical or empty container.
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## 14. TRANSPORT INFORMATION

### International transport regulations

<b>International transport regulations:</b>	Classified as Dangerous Good for land/rail, sea and air.
<b>Hazchem code:</b>	2[Z]
<b>Hazard Class:</b>	9
<b>UN number:</b>	3082
<b>Packing Group:</b>	III

### Land - Road/Railway

**Proper shipping name :** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Contains: cyanazine 50%)  
**Marine pollutant:** Yes

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## 15. REGULATORY INFORMATION

**ACVM Registered Number:** P3752  
**HSNO Approval Code:** HSR000390

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## 16. OTHER INFORMATION

**Additional information:**  
Replaces ES369

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