



SAFETY DATA SHEET

BLADEx[®] SC

Date of Issue: 24 February 2025

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Cyanazine
 Recommended use: Herbicide
 Supplier: UPL New Zealand Limited
 PO Box 51584, Pakuranga
 Auckland
 Phone 0800 100 325
 www.upl-ltd.com/nz

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification:



Signal Word: DANGER

GHS Classification:

GHS Classification and Category	Hazard Code	Hazard Statement
Acute toxicity, oral Cat 4	H302	Harmful if swallowed.
Serious eye damage/eye irritation, Cat 2B	H319	Causes serious eye irritation
Reproductive toxicity Cat 2	H361	Suspected of damaging fertility or the unborn child.
STOT Rep. Exp Cat 1	H372	Causes damage to organs through prolonged or repeated exposure.
Aquatic Acute Cat 1	H400	Very toxic to aquatic life
Aquatic chronic Cat 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to terrestrial vertebrates.		

Required identification Details:

PRECAUTIONARY STATEMENTS PREVENTION

P102 - Keep out of the reach of children.
 P103 - Read label carefully 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 spray.
 P264 - Wash hands thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection
P273 – Avoid release to the environment.
Do not apply directly into or onto water.
Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

RESPONSE

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

P305+P351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice.

P308+P313 - IF exposed or concerned: Get medical advice.

P314 - Get medical advice if you feel unwell.

P391 - Collect spillage.

Records of use must be kept.

STORAGE

P405 - Store locked up.

DISPOSAL

P501 - Dispose of container and unused product in accordance with local regulations.

Product disposal: Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

Container disposal: Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery® (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

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 information:

First-aid measures

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

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).

Skin contact:

Wash with plenty of soap and water.

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.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	2Z
Fire/Explosion Hazard:	
ERP Guide No:	
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.
Specific methods:	In the event of a large fire, close off area at risk downwind.
Protection of fire-fighters:	Use self-contained breathing apparatus and chemical protective clothing.
Other Information:	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.

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.
Safe Storage:	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. <u>Aggregate storage volume thresholds:</u> 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 >4 ha are exempt but with controls

Do not store or load with:

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Tolerable Exposure limit: Workplace boundary limit: Ethanediol: 26 mg/m³
Exposure Standards: NA
Exposure Standards outside the workplace: NA

Engineering measures

Exposure control measures: NA

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). e.g. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour, etc.):	Light brown liquid..
Odour:	mild odour
Odour threshold:	NA
pH:	6.8 @ 20°C
Melting point/freezing point:	NA
Initial boiling point and boiling range:	NA
Flash point:	NA
Flammability (solid, gas):	NA
Upper/lower flammability or explosive limits:	NA
Vapour pressure:	NA
Vapour density:	NA
Relative density:	NA
Bulk density:	NA
Solubility(ies):	Dispersible
Partition coefficient: n-octanol/water:	NA
Auto-ignition temperature:	Nil
Decomposition temperature:	NA
Kinematic viscosity:	NA
Particle characteristics:	NA

10. STABILITY AND REACTIVITY

Stability:	NA
Conditions to avoid:	NA
Materials to avoid:	None known
Thermal decomposition:	No decomposition if stored and handled as described/indicated.
Hazardous Decomposition Products:	(Result of fire) nitrous gases, nitric acid decomposition products, hydrogen chloride gas, vapours and fogs, hydrogen cyanide gas, cyanide decomposition products
Hazardous polymerization:	NA
Hazardous Reactions:	No hazardous reactions known.
Specific Data:	

11. TOXICOLOGICAL INFORMATION

Misuse may be harmful to health.

Acute toxicity – Oral:	LD ₅₀ Rat, male: 1015 mg/kg; LD ₅₀ Rat, female: 442 mg/kg
Acute toxicity – Dermal:	LD ₅₀ Rat: >4000 mg/Kg
Acute toxicity – Inhalation:	LC ₅₀ Rat: >2.46 mg/L
Skin irritation:	Primary skin irritation/rabbit: non-irritant
Eye irritation:	Causes serious eye irritation
Respiratory or skin Sensitization:	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
Mucous membrane:	Primary irritations, rabbit: non-irritant
Germ cell mutagenicity:	NA
Carcinogenicity:	NA
Reproductive toxicity:	Suspected of damaging fertility or the unborn child.
Aspiration Hazard:	NA
Specific Target Organ Toxicity (STOT) – single exposure	

Specific Target Organ Toxicity (STOT) – repeated exposure

Causes damage to organs through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

Information on Cyanazine

Ecology – general:

Hazardous to the aquatic environment, short-term (acute):

Classification procedure - Hazardous to the aquatic environment, short-term (acute):

Very toxic

Oncorhynchus mykiss LC₅₀ (96 h): 9.3 mg/L

Daphnia magna LC₅₀ (48 h): 42 mg/L

Algae; *Selenastrum capricornutum* EC₅₀ (96 h): 0.02 mg/L

Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, long-term (chronic):

Classification procedure - Hazardous to the aquatic environment, long-term (chronic):

Toxicity for terrestrial species:

Hazardous to terrestrial vertebrates.

Bees:

Not toxic to bees.

Birds:

Mallard duck LD₅₀ (oral) >2000 mg/kg

Persistence and degradability:

NA

Bioaccumulative potential:

NA

Partition coefficient n-octanol/water (Log Kow):

NA

Mobility in soil:

NA

Ozone:

NA

Other adverse effects:

13. DISPOSAL CONSIDERATIONS

Methods of disposal:

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.



Empty container disposal/precautions:

Container: Triple rinse container and add rinsate to spray tank. Dispose of container at an approved landfill or Agrecovery Depot. Otherwise crush and bury in a suitable landfill.

14. TRANSPORT INFORMATION - International transport regulations

Classified as Dangerous Good for land/rail, sea and air

UN number: 3082

Hazchem 2Z

DG Code: 9

Packing Group: III

Marine Pollutant: Yes

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

MTQ (non-Commercial):
Passenger Service Vehicle:

15. REGULATORY INFORMATION

ACVM Registered Number: P003752
HSNO Approval Code: HSR000390

16. OTHER INFORMATION

Additional information:

Original Issue Date: June 2012
Revision Date: 24 February 2025
Replaces: ES609

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, UPL New Zealand Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.

Bladex® is a trademark of UPL New Zealand Ltd