

Infosafe No™ 3NUJ1	Issue Date : November 2016	ISSUED by NUFARMNZ
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 Product Name **CYLEX® PLUS**

1. Identification

GHS Product Identifier	CYLEX® PLUS
Product Code	04451
Product Type	Plant Growth Regulator
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270-4159
Emergency phone number	0800 651 911
Recommended use of the chemical and restrictions on use	A natural plant growth regulator which induces thinning and return bloom in apples and pears.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

Other Information	9.1D aquatic toxicant, ECOTOXIC
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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	6-benzyladenine	1214-39-7	20 g/L
	Ingredients determined to be non-hazardous	-	Balance

4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye contact	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically. Medical conditions aggravated by exposure - kidney disorders.

5. Fire-fighting measures

Suitable extinguishing media	Choose extinguishing media to suit the burning material. Water, foam, carbon dioxide or dry chemical.
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Hazards from Combustion Products	None known.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Avoid skin and eye contact. APPROVED HANDLER: Not applicable TRACKING: Is not required RECORD KEEPING: Not applicable This product must not be applied onto or into water.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals.
Additional information on precautions for use	Stores containing 10,000L of CYLEX PLUS require secondary containment and are subject to signage, and more than 10,000L require emergency response plans. Avoid contamination of water supply.
Other Information	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

9. Physical and chemical properties

Form	Liquid
Appearance	Clear
Odour	No appreciable odour
Boiling Point	188°C
Solubility in Water	Miscible

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Specific Gravity	1.046
pH	2.8 (5% solution)
Vapour Density (Air=1)	>1 (air = 1)
Evaporation Rate	<1 (BuAc = 1)
Flash Point	106°C
Auto-Ignition Temperature	377°C
Explosion Limit - Upper	12.6% (for the solvent)
Explosion Limit - Lower	2.6% (for the solvent)
Other Information	(SL) Soluble concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Oxidising and reducing agents.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >5,000mg/kg for Cylex Plus LD50 (mouse) 1,300mg/kg for 6-benzyladenine LD50 (rabbit) 5,000mg/kg for Cylex Plus
Acute Toxicity - Dermal	
Acute Toxicity - Inhalation	LC50 (rat) >4.99mg/L/4hrs at the highest obtainable inhalation exposure chamber concentration for Cylex Plus
Ingestion	Ingesting large amounts of the main solvent component can affect the body's chemistry by increasing the amount of acid, resulting in metabolic problems.
Eye	Transient conjunctival irritation was observed in test animals after application. Mild to moderate irritant. Rinsing reduced extent and persistence of observed irritation.
Skin Sensitisation	Not considered a sensitizer based upon the results of a skin sensitization study in test animals.
Carcinogenicity	None of the components are classified as carcinogens.
Skin corrosion/irritation	Produced slight redness at site of application in several animals. Not classified as a skin irritant.

12. Ecological information

Persistence and degradability	Readily biodegradable. Hydrolytically stable.
Bioaccumulative Potential	Not bioaccumulative. log Pow = 2.16
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Fish	LC50 (96h) Brachydanio rerio (zebrafish) is 42mg/L LC50 (96h) rainbow trout = 21.4ppm (static, mortality) for 6-benzyladenine
Acute Toxicity - Daphnia	LC50 (48h) daphnia magna = 28mg/L for Cylex Plus EC50 (48h) daphnia magna = 20.5ppm (static, immobilization) for 6-benzyladenine
Acute Toxicity - Algae	LC50 (72hr) Selenastrum capricornutum is 45g/L for Cylex Plus
Acute Toxicity - Other Organisms	LD50 (contact) (48hr) >25µg/bee; (oral) (48hr) >25µg/bee.

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
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Safety Data Sheet

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Container Disposal Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. Transport information

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport Not classified as Dangerous Goods for transport in New Zealand.
Other Information Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or International Regulatory Information Registered pursuant to the ACVM Act 1997, No. P8020
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR007775
See www.epa.govt.nz for approval controls.
Hazard Rating Systems NFPA/HMIS: 1-1-0

16. Other Information

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
5 Yearly review carried out. Minor updates made to the SDS.
Revisions Highlighted
Other Information Supersedes SDS issued November 2011
...End Of MSDS...

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