

1: Identification of the Substance and Supplier

Product Name ELEMENT
Recommended Use Herbicide

Suppliers Details Orion AgriScience Ltd

Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053

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Web Addresswww.orionagriscience.co.nzEmail Addressorders@orionagriscience.co.nz

Telephone Number (03) 928 2386 (office hours), 0800 674 6627 (free phone)

 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

Date of Issue/Revision March 2025

2: Hazards Identification

Hazard Pictograms



Signal Words

Hazard Classes:

Eye Irritation (Cat. 2)

Aquatic Ecotoxicity (Cat. 3)

Hazardous to soil organisms

Hazardous to terrestrial vertebrates

Precautionary Statements:

Prevention

Response

Warning

Hazard Statements:

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

H423 Very toxic to the soil environment

H433 Harmful to terrestrial vertebrates

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read carefully and follow all instructions P264 Wash hands thoroughly after handling

P280 Wear eye protection / face protection

P273 Avoid release to the environment

Keep out of reach of children. Read label before use. Avoid contact with eyes and skin. Do not breathe in the spray mist. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do

not apply directly into or onto water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing P337+P313 If eye irritation persists: Get medical advice/attention

First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only,

call 0800 CHEMCALL (0800 243 6225) (24 hrs).

Storage Keep out of reach of children.

Disposal P501 Dispose of contents by using it in accordance with this label. Dispose of the

container via AgRecovery after triple rinsing (use the rinsate for spraying).

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3: Composition/ Information on Ingredients

IngredientCAS NoContent (% w/v)Picloram amine salt1918-02-110 - 30Clopyralid amine salt57754-85-510 - 30Other ingredientsProprietaryRemainder

4: First Aid Measures

If medical advice is needed, have product container or label at hand. For advice call the National Poisons Centre or a Doctor

Ingestion: Seek medical advice if feeling unwell

Skin Contact: Wash with plenty of soap and water. Seek medical advice if irritation occurs.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.

Seek medical advice if irritation persists.

Inhalation:Seek medical advice if feeling unwell.Workplace Facilities:Hand wash facility. Eye wash facility

Advice to Doctor: No specific antidote. Treat symptomatically
National Poison Centre 0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion: Nausea, vomiting, gastrointestinal discomfort

Skin Contact: No data available

Eye Contact: Irritation

Inhalation: No data available

5: Fire-Fighting Measures

Fire/Explosion Hazard Non-Flammable

HAZCHEM Code 2X ERP Guide No 47

Extinguishing Media Water spray, foam, dry chemical or C02. Avoid water jet.

Fire Fighting Instructions During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

Specific Hazards Arising from Fire No data available

6: Accidental Release Measures

Personal Precautions Caution: Floors may be slippery if wet. Wear personal protective clothing and equipment as described in

section 8. Exclude non-essential people from the area.

Environmental Precautions Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

Clean UpAbsorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable

container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for

disposal. Dispose of safely to a suitable landfill.

7: Handling and Storage

Storage: Keep out of reach of children. Store in the original tightly closed container in a secure area.

Handling and Use: Keep out of reach of children. Refer to Prevention statements in section 2 above. Keep people and animals

away from the area while spraying and for the duration of the REI.

This substance is not to be used on turf. Treated vegetation shall not be disposed of at any green waste

recycling centre.

REI Until spray has dried

8: Exposure Controls / Personal Protection

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Tolerable Exposure Limit None established

Workplace Exposure Standards Picloram TWA 10 mg/m³

Engineering ControlsSelect spray application equipment to minimize exposure to operator and bystanders

Personal Protection:

The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational

Protective Footwear: AS/NZS2210

Eye Safety glasses/goggles when mixing or applying

Skin Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves when mixing and

applying

Respiratory Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter)

is required.

Clean protective equipment after use

9: Physical and Chemical Properties

AppearanceClear Amber LiquidOdourNon-specificOdour ThresholdDoes not applypHDoes not apply

Melting Point/Freezing Point <0°C Boiling Point >100°C

Flash Point

Flammability

Upper/Lower Flammability Limits

Vapour Pressure

Vapour Density

Relative Density

Not flammable

Not flammable

Does not apply

Does not apply

1.20 g/mL (approx.)

Solubility in Water Soluble

Partition Coefficient: n-octanol/waterSee section 12Auto ignition TemperatureDoes not applyDecomposition TemperatureDoes not applyKinematic ViscosityDoes not applyParticle characteristicsDoes not apply

10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous ReactionsNone ExpectedIncompatibilityNone KnownHazardous Decomposition ProductsNone Known

11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

Acute Oral ToxicityLD50 > 5000 mg/kgAcute Dermal ToxicityLD50 > 5000 mg/kgAcute Inhalation ToxicityLD50 > 5 mg/L

Skin corrosion/irritation Information not available

Serious eye damage/Eye irritation Irritant

Respiratory or skin sensitisation Information not available

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Germ cell mutagenicity Information not available Carcinogenicity Information not available **Reproductive Toxicity** Information not available **Specific Organ Toxicity – Single** Information not available

exposure

Specific Organ Toxicity - Repeated

exposure

Aspiration hazard

Information not available

Information not available

12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

The following	information is	nrecented	in recnect o	f the active	ingredient:
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The following information is presented in respect of the active ingredient:				
Ecotoxicity	Picloram			
	Acute Oral LD50 (Chicks) 6000 mg/kg			
	• LC50 (96 hr) (Rainbow trout) 5.5 mg/l			
	• LC50 (48 hr) (Daphnia) 34.4 mg/l			
	• EC50 (Algae) 36.9 mg/l			
	Non-toxic to bees			
	Clopyralid			
	Acute Oral LD50 (Mallard duck) 1465 mg/kg			
	 LC50 (96 hr) (Rainbow trout) 103 mg/l 			
	• LC50 (48 hr) (Daphnia) 225 mg/l			
	• EC50 (96 hr) (Algae) 6.9 mg/l			
	Non-toxic to bees			
Persistence/degradability	Biodegradable. DT50 (soil) 83 days (typical) (Picloram)			
	Biodegradable. DT50 (soil) 23 days (typical) (Clopyralid)			
Bioaccumulative Potential	Octanol-water partition coefficient	LogP = -1.92 (low) (Picloram)		
		LogP = -2.63 (low) (Clopyralid)		
Soil Mobility	Soil organic carbon water partitioning coefficient	Koc = 13 (very-mobile) (Picloram)		
		Koc = 5 (very-mobile) (Clopyralid)		
Environmental Exposure Limit:	None established			

13: Disposal Considerations		
Product	Dispose of product by using it in accordance with the label. Waste product should be disposed of to	
	suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.	
Container	Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other	
	purpose.	

Container	Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other purpose.
14: Transport Information	
Dangerous Goods	
UN Number	Not Applicable – Not dangerous for transport

Proper Shipping Name Not Applicable – Not dangerous for transport Class Not Applicable - Not dangerous for transport **Subsidiary Class** Not Applicable – Not dangerous for transport **Packing Group** Not Applicable - Not dangerous for transport **Additional Information** Not Applicable – Not dangerous for transport

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MTQ (Non-Commercial)

Not Applicable - Not dangerous for transport

Passenger Service Vehicle

No restriction

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HSR000762 **EPA Approval No** P8602 **ACVM Registration No Qualified Person** Required **Certified Handler** Not required

Workplace Only

Required. A person may supply this substance only to a workplace under the management and control of a PCBU, and only if the person has received written notification that there is someone at the workplace who has a relevant qualification as listed in Schedule 10 of the Hazardous Property Controls Notice. Not required

Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)

Tracking

Record Keeping

Site Requirements under EPA Notice

and HSWHS Regs:

- A hazardous substance location compliance certificate is not required
- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is not applicable
- Fire extinguishers are not required
- Signage is required for more than 1000 litres
- An emergency response plan is required for more than 1000 litres
- Secondary containment is required for more than 1000 litres
- Segregation from incompatible substances Segregate from Class 1 (Explosives) and Class 5 (Oxidisers and Organic Peroxides)

Use Restrictions

This substance is not to be used on turf. Treated vegetation shall not be disposed of at any green waste

recycling centre.

Additional Requirements

Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

16:	Otner	Information
SDS	review	date

SDS review date	18 March 2025	
Glossary		
ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are	
	expected over a lifetime of exposure	
ACVM	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries	
Cat.	GHS category	
Ceiling	A concentration that should not be exceeded at any time during any part of the working day	
Certified Handler	A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (Ac	
	Toxicity Category 1 or 2 – Oral, Dermal or Inhalation)	
DT50	Time (days) for 50% reduction in concentration	
FCFO	Constitution and industrial form of the FOOV of annuity	

EC50

Concentration required to produce an effect in 50% of organisms

Environmental Exposure Limit

Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.

EPA Notice

Hazardous Property Controls Notice 2017

ER Guide

Australian and New Zealand Emergency Response Guide Book

GHS

Globally harmonized system of classification and labelling of chemicals

Hazardous Substance Location

For locations storing hazard substances of certain classes above threshold quantities

Compliance Certificate

Hazardous Area A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009

HAZCHEM Code HSHPC Notice

Hazardous Substances (Hazardous Property Controls) Notice 2017

Emergency action code for emergency services

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HSWHS Regs Health and Safety at Work (Hazardous Substances) Regulations 2017

LC50 Concentration that will kill 50% of organisms

LD50 Dose that will kill 50% or organisms

MTQ Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road

by the user

NotificationAdvance notice given to neighbours and other affected parties, of details of proposed application, and

other details as described

Octanol-Water Partition Coefficient The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10

form, as an indicator that a substance may bioaccumulate

PDE Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of

exposure

Protected Place Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where

people assemble

Public Place A place frequented by the public, including roads (does not include private property)

Qualified Person A requirement for the loader, contractor or person applying the product to hold a qualification such as a

GROWSAFE Certificate, Unit Standard 21563, etc.

Record Keeping Includes a spray diary or other record of application

REI Restricted Entry Interval – The length of time after application before entry into the treated area is

permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.

Segregation Certain classes of substances must not be in contact with, and must be stored separately from, certain

other classes as specified in HSWHS Regs and the HSHPC Notice

Separation DistancesThe distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous

substances and protected places and/or public places of certain classes above threshold quantities

Signage Positioned at entrances to commercial premises providing information on the hazardous substances

present

Soil Adsorption Coefficient (Kd)

The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid

phase. The higher the value the less mobile the chemical is in soil

Soil Organic Carbon-Water The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the

Partitioning Coefficient (Koc) soil. The higher the value the less mobile the chemical is in soil

STEL Short term exposure level – 15 minute time weighted average

Tolerable Exposure LimitMaximum concentration limit of a substance above which persons must not be exposed

Tracking For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWA Time weighted average calculated over an 8 hour working day

exposed

Workplace Only

A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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