

### 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

PO Box 39 071, Harewood, Christchurch, 8545

**Web Address** www.orionagriscience.co.nz **Email Address** orders@orionagriscience.co.nz

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

0800 CHEMCALL (0800 243 622) (24 hours) **Emergency Telephone** 0800 POISON (0800 764 766) (24 hours) **National Poison Centre** 

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### 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

#### Warning

#### **Hazard Statements:**

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

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

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+P317 If eye irritation persists: Get medical help

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).

Keep out of reach of children.

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).

Response

Storage Disposal

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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

HAZCHEM Code

Rot Applicable

ERP Guide No

Not Applicable

**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 Up**Absorb 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.

REI Until spray has dried

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit

None established

Workplace Exposure Standards

None established

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**Engineering Controls** 

Select spray application equipment to minimize exposure to operator and bystanders

Personal Protection:

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 ThresholdNo data availablepHNot applicable

Flash Point

Flammability

Upper/Lower Flammability Limits

Vapour Pressure

Vapour Density

Relative Density

Not flammable

No data available

No data available

No data available

1.20 g/mL (approx.)

Solubility in Water Soluble

Partition Coefficient: n-octanol/water

Auto ignition Temperature

Decomposition Temperature

No data available

No data available

No data available

### 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 Irritant/Corrosive

Eye Irritant/Corrosive

Irritant
Sensitisation Effects

None
Mutagenic Effects

None
Carcinogenic Effects

None
Reproductive Effects

None
Specific Organ Toxicity

None

### 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

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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			
	<ul> <li>LC50 (96 hr) (Rainbow trout) 103 mg/l</li> </ul>			
	<ul> <li>LC50 (48 hr) (Daphnia) 225 mg/l</li> </ul>			
	• 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	d)		
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 a
	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.

### **14: Transport Information**

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
MTQ (Non-Commercial)	Not Applicable – Not dangerous for transport
Passenger Service Vehicle	No restriction

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

Workplace Only

Yes (Note: Certified handler not required)

**Tracking** Not required

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

Site Requirements under EPA Notice 

• A hazardous substance location compliance certificate is not required

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- 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.

people assemble

**Additional Requirements** 

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

16: Other Information		
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 (Acute	
	Toxicity Category 1 or 2 – Oral, Dermal or Inhalation)	
DT50	Time (days) for 50% reduction in concentration	
EC50	Concentration required to produce an effect in 50% of organisms	
<b>Environmental Exposure Limit</b>	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	
<b>Hazardous Substance Location</b>	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	Emergency action code for emergency services	
HSHPC Notice	Hazardous Substances (Hazardous Property Controls) Notice 2017	
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	
Notification	Advance 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	

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

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**Public Place** 



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 Distances The 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 soil.

Partitioning Coefficient (Koc)

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

STEL

Short term exposure level – 15 minute time weighted average

**Tolerable Exposure Limit**Maximum 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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