

### 1: Identification of the Substance and Supplier

<b>Product Name</b>	<b>CORRAL</b>
<b>Recommended Use</b>	Herbicide
<b>Suppliers Details</b>	Orion AgriScience Ltd Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053 PO Box 39 071, Harewood, Christchurch, 8545
<b>Web Address</b>	www.orionagriscience.co.nz
<b>Email Address</b>	orders@orionagriscience.co.nz
<b>Telephone Number</b>	(03) 928 2386 (office hours), 0800 674 6627 (free phone)
<b>Emergency Telephone</b>	0800 CHEMCALL (0800 243 622) (24 hours)
<b>National Poison Centre</b>	0800 POISON (0800 764 766) (24 hours)
<b>Date of Issue/Revision</b>	February 2025

### 2: Hazards Identification

#### Hazard Pictograms



#### Signal Words

##### Hazard Classes:

Flammable Liquid (Cat. 3)  
Acute Inhalation toxicity (Cat. 4)  
Acute Oral toxicity (Cat. 4)  
Eye Irritation (Cat. 2)  
Skin Sensitisation (Cat. 1)  
Carcinogenicity (Cat. 2)  
Specific target organ toxicity (repeated exposure) (Cat. 1)  
Hazardous to the aquatic environment acute (Cat. 1)  
Hazardous to the aquatic environment chronic (Cat. 1)  
Hazardous to soil organisms  
Hazardous to terrestrial vertebrates

##### Precautionary Statements:

Prevention

#### Danger

##### Hazard Statements:

H226 Flammable liquid and vapour  
H332 Harmful if inhaled  
H302 Harmful if swallowed  
H319 Causes serious eye irritation  
H317 May cause an allergic skin reaction  
H351 Suspected of causing cancer  
H372 Causes damage to organs through prolonged or repeated exposure  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic organisms with long lasting effects  
H421 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  
P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P203 Obtain, read and follow all safety instructions before use

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking

P233 Keep container tightly closed  
P240 Ground and bond container and receiving equipment  
P241 Use explosion proof electrical/ventilating/lighting equipment  
P242 Use non sparking tools  
P243 Take action to prevent static discharges  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P264 Wash hands thoroughly after handling

Response	<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray  P270 Do not eat, drink or smoke when using this product  P271 Use only outdoors or in a well-ventilated area  P272 Contaminated work clothing should not be allowed out of the workplace  P273 Avoid release to the environment  Keep out of reach of children. Read label before use. Do not use until all safety precautions have been read and understood. Use only outdoors. Explosive concentrations of vapours may form in enclosed or poorly ventilated areas. Avoid contact with eyes and skin. Do not breathe in the vapour or spray mist. When mixing or applying, wear personal protection as described in section 8. Take off contaminated clothing and wash before reuse. 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.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water (or shower)  P370+P378 In case of fire use water spray, foam, dry chemical or CO2 to extinguish. Avoid water jet  P308+P313 If exposed or concerned: Get medical advice/attention  P301+P312 IF SWALLOWED: Call a poison centre or doctor if you feel unwell  P302+P317 IF ON SKIN: Get medical help  P302+P352 IF ON SKIN: Wash with plenty of water  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing  P312 Call a poison centre/doctor if you feel unwell  P332+P317 If skin irritation occurs get medical advice  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  P314 Get medical advice/attention if you feel unwell  P333+P313 If skin irritation or rash occurs: Get medical advice/attention  P321 Specific treatment (See first aid instructions)  P362+P364 Take off contaminated clothing and wash it before reuse  P318 If exposed or concerned, get medical advice  P330 Rinse mouth  P319 Get medical help if you feel unwell  P391 Collect spillage  First aid measures described in section 4. Fire extinguishing instructions described in section 5. 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</p>
Storage	<p>P403+P235 Store in a well ventilated place. Keep cool  P405 Store locked up  Keep out of reach of children</p>
Disposal	<p>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).</p>

**3: Composition/ Information on Ingredients**

Ingredient	CAS No	Content (% w/v)
Alachlor (active ingredient)	15972-60-8	48
Chlorobenzene	108-90-7	30 - 60
Other ingredients	Proprietary	Remainder

### 4: First Aid Measures

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

<b>Ingestion:</b>	Do NOT induce vomiting. Seek medical advice immediately.
<b>Skin Contact:</b>	Wash with plenty of soap and water. Seek medical advice if irritation or rash occurs, or if feeling unwell.
<b>Eye Contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing. Seek medical advice if irritation persists.
<b>Inhalation:</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling unwell.
<b>Workplace Facilities:</b>	Hand wash facility. Eye wash facility
<b>Advice to Doctor:</b>	No specific antidote. Treat symptomatically. If gastric lavage or emesis is considered necessary, inhalation of hydrocarbons must be prevented. Hydrocarbon aspiration may complicate poisonings involving ingestion
<b>National Poison Centre</b>	0800 POISON (0800 764 766) (24 hours)

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

<b>Ingestion:</b>	Nausea, vomiting, headache, stomach cramps. The solvent in this product may cause bronchopneumonia or pulmonary oedema if aspirated into the lungs from ingestion or from vomiting
<b>Skin Contact:</b>	Irritation. Contact may induce an allergic response in susceptible individuals
<b>Eye Contact:</b>	Irritation
<b>Inhalation:</b>	Headache, dizziness, nausea, vomiting, drowsiness, unconsciousness

### 5: Fire-Fighting Measures

<b>Fire/Explosion Hazard</b>	Flammable liquid and vapour. Explosive concentration of vapours may form in enclosed or poorly ventilated areas.
<b>HAZCHEM Code</b>	3Y
<b>ERP Guide No</b>	14
<b>Extinguishing Media</b>	Water spray, foam, dry chemical or CO2. Avoid water jet.
<b>Fire Fighting Instructions</b>	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.
<b>Specific Hazards Arising from Fire</b>	No data available

### 6: Accidental Release Measures

<b>Personal Precautions</b>	Caution: Floors may be slippery if wet. Eliminate all ignition sources and naked lights. Use non-sparking equipment. Leave and/or avoid entering confined spaces. Wear personal protective clothing and equipment as described in section 8. Respiratory protection (with organic vapour cartridge) required for any spill other than minor. Exclude non-essential people from the area.
<b>Environmental Precautions</b>	Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.
<b>Clean Up</b>	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

<b>Storage:</b>	Keep out of reach of children. Store in the original tightly closed container in a cool, well ventilated, locked and secure area.
<b>Handling and Use:</b>	Refer to Prevention statements in section 2 above. Exclude people and animals from the application area, both during application and for the duration of the REI.
<b>REI</b>	Until spray has dried

### 8: Exposure Controls / Personal Protection

<b>Tolerable Exposure Limit</b>	None established
<b>Workplace Exposure Standards</b>	Chlorobenzene 46 mg/m <sup>3</sup> , 10 ppm (8 hr TWA)
<b>Engineering Controls</b>	Select spray application equipment to minimize exposure to operator and bystanders
<b>Personal Protection:</b>	
	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.
<b>Eye</b>	Safety glasses/goggles (or full face respirator incorporating visor) when mixing or applying
<b>Skin</b>	Chemical resistant coveralls with hood tightly fitting at head, wrists and ankles (e.g., Tychem F suit), chemical resistant boots and chemical resistant gloves (barrier multilayer, nitrile, neoprene, butyl).
<b>Respiratory</b>	Not required where vapour or spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.
	Clean protective equipment after use

### 9: Physical and Chemical Properties

<b>Appearance</b>	Violet Liquid
<b>Odour</b>	Solvent
<b>Odour Threshold</b>	Does not apply
<b>pH</b>	Does not apply
<b>Melting Point/Freezing Point</b>	Does not apply
<b>Boiling Point</b>	Does not apply
<b>Flash Point</b>	29°C (closed cup)
<b>Flammability</b>	Flammable liquid and vapour
<b>Upper/Lower Flammability Limits</b>	Does not apply
<b>Vapour Pressure</b>	Does not apply
<b>Vapour Density</b>	> 1 (heavier than air)
<b>Relative Density</b>	1.12 g/mL (approx.)
<b>Solubility in Water</b>	Emulsifiable
<b>Partition Coefficient: n-octanol/water</b>	See section 12
<b>Auto ignition Temperature</b>	Does not apply
<b>Decomposition Temperature</b>	Does not apply
<b>Kinematic Viscosity</b>	Contains a low viscosity hydrocarbon solvent
<b>Particle characteristics</b>	Does not apply

### 10: Stability and Reactivity

<b>Stability</b>	Stable under normal conditions
<b>Hazardous Reactions</b>	None Expected
<b>Incompatibility</b>	incompatible with strong acids and bases, oxidizing agents
<b>Hazardous Decomposition Products</b>	None 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

<b>Acute Oral Toxicity</b>	LD50 > 2000 mg/kg
<b>Acute Dermal Toxicity</b>	LD50 > 2000 mg/kg
<b>Acute Inhalation Toxicity</b>	LD50 > 5 mg/L
<b>Skin corrosion/irritation</b>	Mild Skin Irritant
<b>Serious eye damage/Eye irritation</b>	Strongly Irritating
<b>Respiratory or skin sensitisation</b>	May cause an allergic skin reaction in susceptible individuals



### Record Keeping

#### Site Requirements under EPA Notice and HSWHS Regs:

- Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)
- A hazardous substance location compliance certificate is required for more than 500 L (closed containers > 5 L size), 1500 L (closed containers ≤ 5 L size), or 250 L (open containers)
  - A hazardous area is required
  - Separation distances for class 3 and class 6 substances to protected places and public places is applicable
  - Fire extinguishers are required for more than 500 L (2 fire extinguishers)
  - Signage is required for more than 100 L
  - An emergency response plan is required for more than 100 L
  - Secondary containment is required for more than 100 L
  - Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is required

#### Additional Requirements

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

## 16: Other Information

### SDS review date

24.2.25

### 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 (6.1A and 6.1B)

#### DT50

Time (days) for 50% reduction in concentration

#### 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

#### ERP Guide

Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008

#### 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

Emergency action code for emergency services

#### 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% of 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

#### 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.

<b>Record Keeping</b>	Includes a spray diary or other record of application
<b>REI</b>	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.
<b>Segregation</b>	Certain classes of substances must not be in contact with, and must be stored separately from, certain other classes as specified in HSWHS Regs
<b>Separation Distances</b>	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
<b>Signage</b>	Positioned at entrances to commercial premises providing information on the hazardous substances present
<b>Soil Adsorption Coefficient (Kd)</b>	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
<b>Soil Organic Carbon-Water Partitioning Coefficient (Koc)</b>	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil. The higher the value the less mobile the chemical is in soil
<b>STEL</b>	Short term exposure level – 15 minute time weighted average
<b>Tolerable Exposure Limit</b>	Maximum concentration limit of a substance above which persons must not be exposed
<b>Tracking</b>	For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use of the product
<b>TWA</b>	Time weighted average calculated over an 8 hour working day
<b>Workplace Exposure Standard</b>	An occupational health standard limiting concentrations of specified substances to which persons are exposed
<b>Workplace Only</b>	A product that is restricted to a workplace only and under the supervision of a certified handler
<b>Please Note</b>	

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.