

#### 1: Identification of the Substance and Supplier

Product Name COLT 360EC
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

**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** January 2025

#### 2: Hazards Identification

#### **Hazard Pictograms**



#### Signal Words

#### **Hazard Classes:**

Flammable Liquid (Cat. 4)

Aspiration Hazard (Cat. 1)

Skin Irritation (Cat. 2)

Eye Irritation (Cat. 2)

Specific target organ toxicity (repeated exposure) (Cat. 2)

Hazardous to the aquatic environment chronic (Cat. 3)

Hazardous to soil organisms

Hazardous to terrestrial vertebrates

#### **Precautionary Statements:**

Prevention

Response

**Danger** 

#### **Hazard Statements:**

H227 Combustible Liquid

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H319 Causes serious eye irritation

H373 May cause damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

H421 Very toxic to the soil environment

H433 Harmful to terrestrial vertebrates

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

smoking.

P260 Do not breathe spray, fumes, mist or vapours.

P264 Wash hands and exposed skin thoroughly after handling.

P273 Avoid release to the environment

P280 Wear protective gloves, eye protection/face protection.

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

P301 + P310 IF SWALLOWED: IMMEDIATELY call a POISON CENTER or

doctor/physician.

P331 Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

 $P337 + P313 \ If \ eye \ irritation \ persists: \ Get \ medical \ advice/attention.$ 

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P312 Call the POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P362 + P364 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use carbon dioxide, dry chemical, foam or water spray

P391 Collect spillage.

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.

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 P405 Store locked up.

P403 Store in a well-ventilated place

Disposal P501 Dispose of contents/container in accordance with local regulations

3: Composition/ Information on Ingredients
Ingredient CAS No Content (% w/v)

Clethodim (active ingredient) 99129-21-2 36

Hydrotreated light petroleum distillate 64742-47-8 30 - 60

Other ingredients Proprietary Remainder

### 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:** Do NOT induce vomiting. Call the Poisons Centre on 0800 POISON (0800 764 766), or a Doctor

immediately

**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 unwellWorkplace Facilities:Hand wash facility. Eye wash facility

Advice to Doctor: 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.

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:** May be fatal if swallowed and enters airways. Nausea, vomiting, diarrhoea and gastrointestinal discomfort.

The solvent in this product may cause bronchopneumonia or pulmonary oedema if aspirated into the

lungs from ingestion or from vomiting.

Skin Contact: Irritation

**Eye Contact:** Causes serious eye Irritation

**Inhalation:** Irritation, headache, dizziness, nausea, vomiting, drowsiness

5: Fire-Fighting Measures

Fire/Explosion Hazard Combustible liquid and vapour

HAZCHEM Code 3Z ERP Guide No 47

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

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**Fire Fighting Instructions** 

**Specific Hazards Arising from Fire** 

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

No data available

#### **6: Accidental Release Measures**

**Personal Precautions** 

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.

**Environmental Precautions** 

Clean Up

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

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 cool, well ventilated, locked

and secure area.

Handling and Use:

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. Application must be by ground based method

only.

REI

Until spray has dried

#### 8: Exposure Controls / Personal Protection

**Tolerable Exposure Limit** 

None established

**Workplace Exposure Standards** 

None established (Use lowest practicable level)

**Engineering Controls** 

Select 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** Chemical resistant overalls snugly fitting at the neck, wrist and ankle, boots and gloves

**Respiratory**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

**Appearance** Clear Amber Liquid

OdourSolvent likeOdour ThresholdDoes not applypHDoes not applyMelting Point/Freezing PointDoes not applyBoiling PointDoes not applyFlash Point>60°C

Flash Point >60°C Flammability Flammable

Upper/Lower Flammability Limits No data available. May form explosive mixture in enclosed or poorly ventilated areas

Vapour PressureDoes not applyVapour Density>1 (heavier than air)Relative Density1.0 g/mL (approx.)Solubility in WaterEmulsifiable

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

Kinematic Viscosity Contains a low viscosity hydrocarbon solvent

Particle characteristics Does not apply

#### 10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous Reactions None Expected

IncompatibilityInformation not availableHazardous Decomposition ProductsInformation not available

#### 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 > 2000 mg/kgAcute Dermal ToxicityLD50 > 5000 mg/kgAcute Inhalation ToxicityLD50 > 5 mg/LSkin Irritant/CorrosiveSkin Irritant

Serious eye damage/ eye irritation Serious eye Irritant

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Information not available

single exposure

Specific Target Organ Toxicity -

pecific ranger organi roxicity

Aspiration hazard

repeated exposure

May cause damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

#### **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 presented in respect of the active ingredient:

• Acute Oral LD50 (Rat) 54 mg/kg

LC50 (96 hr) (Rainbow Trout) 25 mg/l EC50 (48 hr) (Daphnia) >100 mg/l

• EC50 (72 hr) (Algae) >12 mg/l

• Acute Oral LD50 (Bee) >43 μg/bee

Persistence/degradability Biodegradable. DT50 (soil) 0.5 days (typical)

**Bioaccumulative Potential** Octanol-water partition coefficient LogP = 4.14

**Soil Mobility** Soil organic carbon water partitioning coefficient Koc = 8000 (non-mobile)

Environmental Exposure Limit: None established

#### 13: Disposal Considerations

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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

**Dangerous Goods** 

Not Applicable – Not dangerous for transport **UN Number** Not Applicable – Not dangerous for transport **Proper Shipping Name** 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

10 litres

15 Regulatory Information

**Passenger Service Vehicle** 

HSR100921 **EPA Approval No** P9502 **ACVM Registration No Qualified Person** Required **Certified Handler** Not required

**Workplace Only** Nο

**Tracking** Not required

**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 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 required for more than 500 litres (2 fire extinguishers)
- 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
- Separation/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

10.	Other	IIIIOIIIIauoii
SDS	review	date

30 January 2025

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.

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**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% or organisms

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

by the use

**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

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

**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

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

Workplace Exposure Standard An occupational health standard limiting concentrations of specified substances to which persons are

exposed

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

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#### 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.