

### 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 2020

### 2: Hazards Identification

#### **Hazard Pictograms**



#### **Signal Words**

### **Hazard Classes:**

3.1D Flammable Liquid (Cat. 4)

6.1E Acute Toxicity (Oral Cat. 5)

6.1E Aspiration Hazard (Cat. 1)

6.3A Skin Irritation (Cat. 2)

6.4A Eye Irritation (Cat. 2)

6.9B Target Organ Systemic Toxicity (Oral Cat. 2)

9.1C Aquatic Ecotoxicity (Cat. 4)

9.2A Soil Ecotoxicity

9.3C Terrestrial Vertebrate Ecotoxicity

### **Precautionary Statements:**

Prevention

Response

Warning

### **Hazard Statements:**

Combustible Liquid

May be harmful if swallowed

May be harmful if swallowed and enters airways

Causes skin irritation

Causes serious eye irritation

May cause damage to organs through prolonged or repeated exposure

Harmful to aquatic organisms Very toxic to the soil environment Harmful to terrestrial vertebrates

Keep out of reach of children. Read label before use. Keep away from flames and hot surfaces. No smoking. Avoid contact with eyes and skin. Do not breathe in the vapour or spray mist. Wash hands thoroughly after use. 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).

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

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### 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

mmediately

**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:** 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: Irritation

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

### 5: Fire-Fighting Measures

Fire/Explosion Hazard Flammable liquid and vapour

HAZCHEM Code 3Z 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. 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** 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 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

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Workplace Exposure Standards None established (Use lowest practicable level)

**Engineering Controls**Select spray application equipment to minimize exposure to operator and bystanders

**Personal Protection:** 

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

Odour Solvent like
Odour Threshold No data available
pH Not applicable
Melting Point/Freezing Point No data available
Boiling Point No data available

Flash Point >60°C Flammability Flammable

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

Vapour PressureNo data availableVapour Density>1 (heavier than air)Relative Density1.0 g/mL (approx.)Solubility in WaterEmulsifiablePartition Coefficient: n-octanol/waterSee section 12

 Partition Coefficient: n-octanol/water
 See section 12

 Auto ignition Temperature
 No data available

 Decomposition Temperature
 No data available

Kinematic Viscosity Contains a low viscosity hydrocarbon solvent

### 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 Toxicity** LD50 > 2000 mg/kg **Acute Dermal Toxicity** LD50 > 5000 mg/kg **Acute Inhalation Toxicity** LD50 > 5 mg/LSkin Irritant/Corrosive Skin Irritant Eye Irritant/Corrosive Eye Irritant **Sensitisation Effects** None **Mutagenic Effects** None **Carcinogenic Effects** None **Reproductive Effects** None

**Specific Organ Toxicity** Exposure at high doses is damaging to the organs (systemic toxin)

### 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:

Acute Oral LD50 (Rat) 54 mg/kg **Ecotoxicity** 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

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

**Bioaccumulative Potential** Octanol-water partition coefficient LogP = 4.14 (high)

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

**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

Not Applicable – Not dangerous for transport

purpose.

### 14: Transport Information

**Dangerous Goods** 

**Subsidiary Class** 

**UN Number** Not Applicable – Not dangerous for transport

**Proper Shipping Name** Not Applicable - Not dangerous for transport

Class Not Applicable - Not dangerous for transport

Not Applicable - Not dangerous for transport **Packing Group** 

**Additional Information** Not Applicable - Not dangerous for transport

MTQ (Non-Commercial) Not Applicable - Not dangerous for transport

**Passenger Service Vehicle** 10 litres

### **15 Regulatory Information**

HSR100921 **EPA Approval No ACVM Registration No** P9502

**Qualified Person** Required **Certified Handler** Not required

**Workplace Only** 

**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

- 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 100 litres

A hazardous area is not required

- 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

### 16: Other Information

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and HSWHS Regs:



Glossar

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% 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

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

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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

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

**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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