

Identification of Substance & Company

Product

Product name Hydrocotyle Lawn Weed Control

Product code to be advised HSNO approval HSR100499 UN number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(TRICLOPYR BUTOXYETHYL ESTER 12%)

DG class 9
Packaging group III
Hazchem code 3Z
Uses Herbicide

Company Details

Company
Amalgamated Hardware Merchants Ltd (AHM)
8 Hautu Drive, PO Box 97162
Wiri, Manukau
Manukau, 2241

New Zealand New Zealand

Telephone +64 9 2511310 **Fax** +64 9 2511311

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR100499), and is classified as follows:

Classes	Hazard Statements

6.1E (oral)	May be harmful if swallowed		
6.3B	Causes mild skin irritation.		
6.4A	Causes eye irritation.		

6.5B May cause an allergic skin reaction.
6.9B May cause damage to organs

9.1A Very toxic to aquatic life with long lasting effects.

9.2A Very toxic to the soil environment.

SYMBOLS

WARNING



Other Classifications

There are no other Classifications that are known to apply.



Precautionary Statements

Keep out of reach of children.

Read label before use.

Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/eye protection/face protection.

Do not breathe vapours/spray.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

IF exposed or concerned: Get medical advice/ attention.

Collect spillage. Store locked up

Further precautionary statements can be found in Section 4 – First Aid.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Class for ingredient(s)	Concentration
Triclopyr butoxyethyl ester	64700-56-7	6.1D (oral), 6.4A, 6.5B (contact), 6.9B (oral), 9.1A (fish), 9.1A (algal), 9.1A (other), 9.1B (crustacean), 9.2A, 9.3C	12%
Diethylene glycol monoethyl ether	111-90-0	3.1D, 6.1E (oral), 6.3B, 6.4A	>60%
Ingredients not contributing to HSNO classes	mixture	NA	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid Ready access to running water is required. Accessible eyewash is required.

facilities

Exposure
Swallowed
Do NOT induce vomiting. Give a glass of water to drink. Call a POISON CENTER or

doctor/physician if you feel unwell.

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

present and easy to do. Apply continuous irrigation with water for at least 15 minutes

holding eyelids apart. If eye irritation persists: Get medical advice.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Inhaled Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing,

dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor

Treat symptomatically



Firefighting Measures

Fire and explosion hazards: There are no specific risks for fire/explosion for this chemical. It is classed as non-

flammable.

Suitable extinguishing

substances:

Carbon dioxide, extinguishing powder, foam.

Unsuitable extinguishing

substances:

Unknown.

Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: 3Z

6. Accidental Release Measures

Containment If greater than 100L is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

stormwater.

Emergency procedures In the event of spillage alert the fire brigade to location and give brief description of

hazard.

Stop the source of the leak, if safe to do so.

Wear protective equipment to prevent skin, eye and respiratory exposure.

Clear area of any unprotected personnel.

Contain using sand, earth or vermiculite. Do not use sawdust on concentrate.

Prevent by whatever means possible any spillage from entering drains, sewers, or water

courses. (If this occurs contact your regional council immediately).

clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or

waterways has occurred advise local emergency services.

Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

Precautions Wear protective equipment to prevent skin and eye contamination and the inhalation of

vapours. Work up wind or increase ventilation.

7. Storage & Handling

Storage Storage of harmful substances with food. Store out of reach of

children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed

in Section 10.

Handling Approved handler required if applied in a wide dispersive manner, or by a commercial

contractor. Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and

eye contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds (2013) Ingredient
Triclopyr butoxyethyl ester
Diethylene glycol monoethyl ether

WES-TWA data unavailable 25ppm* **WES-STEL** data unavailable data unavailable

*- recommended by manufacturer.



Garden Genius

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety in Employment Act 1992 (HSE). Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes

Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious

gloves. Butyl Rubber or Nitrile gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands

after handling.

Respiratory A respirator when airborne concentrations approach the WES (section 8). Use a

respirator with an organic vapour cartridge and particulate filter (dust/mist). If using a respirator, ensure that the cartridges are correct for the potential air contamination and

are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance amber liquid Odour mild solvent like Ηq 6-8 (1% emulsion) Vapour pressure not available **Viscosity** no data **Boiling point** not available Volatile materials not available Vapour density >1 (heavier than air)

Freezing / melting point no data

Solubility emulsifiable in water

Specific gravity / density ~1.05g/ml >93°C

Danger of explosion no data
Auto-ignition temperature Upper & lower flammable limits

Corrosiveness endistrable in 1.05g/ml >93°C

no data
no data
no data

10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames.

Incompatible groups
Substance Specific
Incompatibility

Strong acids, alkalis, oxidising agents, chlorine compounds, ammonium nitrate.

none known

Hazardous decomposition

Sition Oxides of carbon, oxides of nitrogen, hydrogen chloride, phosgene (traces)

products

Hazardous reactions none known



Garden Genius

11. Toxicological Information

Summary

IF SWALLOWED: Triclopyr butoxyethyl ester is slightly toxic to human health.

IF IN EYES: may cause eye irritation and redness.

IF ON SKIN: may cause mild skin irritation (redness). Triclopyr butoxyethyl ester may cause allergic reaction in sensitised

individuals.

CHRONIC TOXICITY: long term exposure to triclopyr can cause changes in the liver and kidney.

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000

mg/kg. Data considered includes: Triclopyr butoxyethyl ester 803 mg/kg, Diethylene

glycol monoethyl ether 3000mg/kg (guinea pig)

Dermal No evidence of dermal toxicity.

Inhaled No evidence of acute inhalation toxicity.

Eye The mixture is considered to be an eye irritant, Triclopyr butoxyethyl ester and diethylene

glycol monoethyl ether are considered eye irritants.

Skin The mixture is considered to be a skin irritant, diethylene glycol monoethyl ether is

considered a mild skin irritant.

Chronic Sensitisation The mixture is considered to be a contact sensitizer. Triclopyr butoxyethyl ester is

classed as a skin sensitiser.

MutagenicityNo ingredient present at concentrations > 0.1% is considered a mutagen.CarcinogenicityNo ingredient present at concentrations > 0.1% is considered a carcinogen.Reproductive /No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental developmental toxicant or have any effects on or via lactation.

Systemic The mixture is considered to be a suspected target organ toxicant. Triclopyr butoxyethyl

ester is classed by EPA as 6.9B (oral).

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

This mixture is very ecotoxic in the aquatic and soil environment with long lasting effects. Do not apply to water. Do not allow run-off to reach drains, sewers or waterways.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is < 1 mg/L. Data

considered includes: Triclopyr butoxyethyl ester 0.36mg/L (96hr, Bluegill Sunfish), 0.048mg/L (chronic, LOEC, 65days, rainbow trout), 0.1mgL (24hr, freshwater diatom Navicula pelliculosa), 0.46mg/L (96hr, Eastern oyster), 1.7mg/L (48hr, Daphnia magna).

Bioaccumulation No data
Degradability No data

Soil EPA has classified the mixture as highly ecotoxic to the soil environment, with a soil

ecotoxicity value ≤ 1 mg/kg. Data considered includes: Triclopyr butoxyethyl ester soil:

EC₂₅: 0.0129mg/kg soil (alfafa), Soil DT 50 >30days.

Terrestrial vertebrate EPA has not classified the mixture as ecotoxic to terrestrial vertebrates. Using LD₅₀'s for

ingredients, the calculated LD_{50} (oral) for the mixture is >2,000 mg/kg. Data considered

includes: Triclopyr butoxyethyl ester 803 mg/kg (rat), 735mg/kg (bobwhite quail),

Diethylene glycol monoethyl ether 3000mg/kg (guinea pig).

Terrestrial invertebrateNo evidence of toxicity towards terrestrial invertebrates.

Biocidal herbicide

Environmental effect levels No EELs are available for this mixture or ingredients



3. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal methodDisposal of this product must comply with the requirements of the Resource Management

Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the

environment.

Contaminated packaging Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

14. Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN number: 3082 **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (TRICLOPYR

BUTOXYETHYL ESTER 12%)

Class(es) 9 Packing group: III Precautions: Marine Pollutant Hazchem code: 3Z

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR100499.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Labelling No removal of labels and/or decanting of product into other containers can occur.

Emergency plan Required if > 100L is stored.

Approved handler Required if applied in a wide dispersive manner, or by a commercial contractor.

Tracking Not required.

Bunding & secondary containment Required if > 100L is stored.

Signage Required if > 100L is stored.

Location test certificate Not required.
Flammable zone Not required.
Fire extinguisher Not required.

Additional controls The substance must not be applied onto or into water.

Requirements for keeping records of use.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.



Other Information

Abbreviations

Approval Code Approval HSR100499, OCP1004 Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical

agent to which a worker may be exposed at any time.

Controls Matrix List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).

DT₅₀ Time (days) for 50% reduction in concentration.

EC50 Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

ERMA Environmental Risk Management Authority (now EPA) **EPA** Environmental Protection Agency (previously known as ERMA)

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

LD50 Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

LC₅₀ Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UFI Upper Explosive Limit **UN Number United Nations Number**

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed.

References

Unless otherwise stated comes from the EPA HSNO chemical classification information Data

database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html , for specific

chemicals.

EPA Transfer Gazettes

Controls Matrix

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)

Part of the EPA New Zealand User Guide to the HSNO Control Regulations

WES 2013

The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ

and available on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS

Review

Reason for review Date **April 2016** Not applicable - new SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

