

Safety Data Sheet



1. Identification of Substance & Company

Product

Product name KOMODO® **Product code TNL 3979 ACVM** P010080 **HSNO** approval HSR000389 **UN** number 3082

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

(Acetochlor)

DG class **Packaging group** Ш Hazchem code 37 Herbicide Uses

Company Details

Company: **Arxada NZ Limited** Address: 13-15 Hudson Rd

Bell Block New Plymouth New Zealand +64 6 755 9234 +64 6 755 1174

Telephone: Fax: Website: www.arxada.co.nz

Email: office-newplymouth@arxada.com

> Emergency Telephone Number: 0800CHEMCALL (0800 243 622) International Emergency Phone: +64 4 917 9888

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR000389). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS Classes

Hazard Statements

Eye irritant category 2 H319 - Causes serious eye irritation. Skin sensitiser category 1 H317 - May cause an allergic skin reaction. STOT* repeated exposure category 2 H373 - May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life. Acute aquatic category 1

Chronic aquatic category 1 H410 - Very toxic to aquatic life with long lasting effects. Hazardous to soil organisms

H421 - Very toxic to the soil environment.

*STOT - System Target Organ Toxicity

SYMBOLS

WARNING







Other Classifications

There are no other classifications that are known to apply.





Precautionary Statements

Prevention P103 - Read label before use.

P260 - Do not breathe vapours/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response P305+P351+P338 - 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. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse. P314 - Get medical advice/attention if you feel unwell.

P391 - Collect spillage. no storage statement

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Acetochlor	34256-82-1	33 – 36%
Ingredients not contributing to GHS classes	Mixture	balance

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

4. First Aid

Storage

General Information

Arxada NZ Limited has an emergency contact phone number: 0800 243 622, +64 4 917 9888

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 harmed 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 recommended. Accessible eyewash is recommended.

facilities

Exposure

Swallowed IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse

mouth. Do NOT induce vomiting. Give a glass of water to drink.

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

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

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 vapours/spray 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

5. Firefighting Measures

Fire and explosion hazards: Suitable extinguishing

There are no specific risks for fire/explosion for this chemical. It is non-flammable.

Carbon dioxide, extinguishing powder, foam.

Unsuitable extinguishing

substances:

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

ContainmentIf 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

storm water.

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. Shut off all possible sources of ignition. 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. 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

Handling

Storage Avoid 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. Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, ecotoxicity warning and name of contents.

WES-TWA

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 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient
Exposure Stds

No ingredient listed.

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 at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. 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

General Personal Protective Equipment (PPE) should not be used as the primary means of

exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate.

Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.

WES-STEL



Safety Data Sheet

arxada

Skin



Avoid any skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile, neoprene or natural rubber gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.

Respiratory

A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use an organic vapour cartridge with a 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. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance Dark tan suspension
Odour not specified
Odour Threshold no data
pH 6.5-9.0
Freezing/melting point no data
Boiling Point no data

Flashpoint >100°C (closed cup)
Flammability non flammable
Upper & lower flammable limits
Vapour pressure no data
Vapour density no data
Specific gravity/density 1.090

Solubility miscible in water

Partition coefficient no data
Auto-ignition temperature no data
Decomposition temperature no data
Viscosity no data
Particle Characteristics 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 Strong acids, oxidisers. Strong bases. Substance Specific None known

Substance Specific Incompatibility

Hazardous decomposition

products

Oxides of nitrogen and carbon. (thermal decomposition).

Hazardous reactions None known

11. Toxicological Information

Summary

IF SWALLOWED: no acute effect anticipated.

IF IN EYES: may cause eye irritation.

IF ON SKIN: sensitised individuals may experience an allergic skin reaction. May cause mild skin irritation.

IF INHALED: may cause respiratory irritation.

Supporting Data

>2,000 mg/kg. Data considered includes: Acetochlor 1426 mg/kg bw.

Aspiration This mixture is not considered to be an aspiration hazard.

Dermal Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is

>2,000 mg/kg. Data considered includes: Acetochlor 3667 mg/kg bw.

Inhaled Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture

is >5mg/L/4h. Data considered includes: Acetochlor 3.85 mg/L.

Eye The mixture is considered to be an eye irritant. Acetochlor is an eye irritant.

Skin This mixture is considered a mild skin irritant. Acetochlor is a mild skin irritant.

Page 4 of 7 September 2024





Chronic Sensitisation The mixture is considered to be a contact sensitizer, because some ingredients

(Acetochlor) esent are known to be contact sensitizers.

No ingredient present at concentrations > 0.1% is considered a mutagen. Mutagenicity

Carcinogenicity No ingredient present at concentrations > 0.1% is considered by EPA to be a carcinogen.

Acetochlor is suspected to be a carcinogen in other jurisdictions (EU).

Reproductive / No ingredient present at concentrations > 0.1% is considered a reproductive or **Developmental** developmental toxicant or have any effects on or via lactation.

The mixture is considered to be a suspected target organ toxicant, because at least one of the ingredients (Acetochlor) present in greater than 1% is suspected to be a target organ

toxicant.

Aggravation of existing conditions

Systemic

None known.

12. Ecological Data

Summary

This mixture is considered very toxic towards aquatic organisms with long lasting effects and very toxic towards soil organisms. In all cases prevent run-off to drains, sewers and waterways.

Supporting Data

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

considered includes:

Acetochlor Acute aquatic toxicity: LC50: 0.36mg/L (96h, Rainbow trout), EC50: 8.2mg/L (48h, Daphnia magna, EC₅₀: 0.0034mg/L (96h, Marine diatom (Skeletonema costatum)). Chronic aquatic toxicity: NOEC: 0.45mg/L (36days, Pimephales promelas), 0.0221mg/L (21

days, Daphnia magna), 0.00012 mg/l (14 days, Duckweed).

Bioaccumulation Acetochlor is not considered bioaccumulative. BCF (aquatic species): 43

Degradability No data

Soil Acetochlor is considered hazardous to soil organisms.

Terrestrial vertebrate See acute toxicity.

Terrestrial invertebrate This mixture is not considered toxicity towards terrestrial invertebrates.

Biocidal no data

13. 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 method Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and 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.

Disposal of contaminated packaging must comply with the Hazardous Substances Contaminated packaging

> (Disposal) Notice 2017 clause 12. Triple rinse empty container placing rinse water in the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot or

crush and bury in an approved landfill.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

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 (Acetochlor)

9 Ш Class(es) Packing group: Precautions: Ecotoxic. Hazchem code: 3Z

IMDG:

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

SUBSTANCE, LIQUID, N.O.S (Acetochlor)

Packing group: Class(es) Ш

Precautions: Marine pollutant **EmS** F-A, S-F

IATA

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

SUBSTANCE, LIQUID, N.O.S (Acetochlor)

Class(es) Packing group:

Precautions: Marine pollutant

Page 5 of 7 September 2024

Product Code: TNL 3979





15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR000389. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

Key workplace requirements are:

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

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances

that have been decanted, transferred or manufactured for own use or have been

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 100L is stored.

Certified handler Required.

Tracking Records of use must be kept in accordance with the current Health and Safety at

Work (Hazardous Substances) Regulations.

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

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

Additional controls Must not be applied directly onto or into water

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 and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

ACVM: P010080.

16. Other Information

Abbreviations

Approval CodeApproval HSR000389, Controls, EPA. www.epa.govt.nzCAS NumberUnique Chemical Abstracts Service Registry Number

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

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised

edition, 2017, published by the United Nations.

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).

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

(usually rats)

NZIoC New Zealand Inventory of Chemicals

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

STOT RESystem Target Organ Toxicity – Repeated ExposureSTOT SESystem Target Organ Toxicity – Single Exposure

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

(usually 8 hours)
Upper Explosive Limit
United Nations Number

Page 6 of 7

UN Number

UEL





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

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using

procedures that gather air samples in the worker's breathing zone.

References

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

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

Other References: Suppliers SDS

Review

Date Reason for review

September 2024 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 GHS 7 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 21 1040951.

