

1. Identification of Substance & Company

Product

Product name Taipan®
Product code NA
ACVM P008619

HSNO approval HSR100001, Taipan

Approval description Taipan UN number 3082

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

(Alachlor)

DG class 9
Packaging group III
Hazchem code 3Z

Uses Herbicide - For selective pre-emergence weed control in a range of vegetable

crops, maize, wheat and barley

Company Details

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

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Emergency Telephone Number: 0800CHEMCALL (0800 243 622, +64 4 917 9888)

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR100001, Taipan). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes Hazard Statements

Acute toxicity category 4 (oral) H302 - Harmful if swallowed. Acute toxicity category 4 (inhalation) H332 - Harmful if inhaled.

Eye irritant category 2 H319 - Causes serious eye irritation.

Skin sensitiser category 1 H317 - May cause an allergic skin reaction.

Carcinogen category 2 H341 - Suspected of causing cancer.

STOT* repeated exposure category 1 H372 - Causes damage to organs through prolonged or repeated exposure.

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

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.
Hazardous to terrestrial vertebrates
H433 - Harmful to terrestrial vertebrates.

*STOT - System Target Organ Toxicity

SYMBOLS

DANGER



Other Classifications

There are no other classifications that are known to apply.





Precautionary Statements

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

P102 - Keep out of reach of children.

P103 - Read label before use.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.

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.

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

P281 - Use personal protective equipment as required.

Response P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.

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.

P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P391 - Collect spillage. P405 - Store locked up.

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

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Alachlor	15972-60-8	30-50%
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

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 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 evewash is recommended.

facilities

Storage

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 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position

comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE

or doctor/physician.

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.

substances:

Unsuitable extinguishing

substances:

Clean-up method

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 boo

Unknown.

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

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. Wear protective equipment to prevent skin,

eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately). Use absorbent (soil, sand or other inert material). Rags are not recommended for the 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 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, corrosivity and ecotoxicity warning and name

of contents.

Store in accordance with NZS 8409 Management of Agrichemicals.

Handling Read label before use. 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 WES-TWA WES-STEL

Exposure Stds

No ingredients 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



Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses. Select eye protection in accordance with AS/NZS 1337.

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. 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.

Respiratory

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance tan liquid Odour not specified **Odour Threshold** no data 7.5-9.5 (5%) Freezing/melting point no data **Boiling Point** no data **Flashpoint** no data Flammability no data Upper & lower flammable limits no LEL or UEL Vapour pressure no data Vapour density no data Specific gravity/density 1.12

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. Strong acids, oxidisers. Strong bases.

None known

Incompatible groups **Substance Specific** Incompatibility

Hazardous decomposition

products

Oxides of nitrogen and carbon. (thermal decomposition).

Hazardous reactions None known





11. Toxicological Information

Summary

IF SWALLOWED: may be harmful if swallowed. IF IN EYES: may cause serious eye irritation.

IF ON SKIN: sensitised individuals may experience an allergic skin reaction.

IF INHALED: harmful if inhaled.

Eye

Supporting Data

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

between 300 and 2,000 mg/kg. Data considered includes: Alachlor 903mg/kg (rat).

Aspiration This mixture is not considered an aspiration hazard.

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

>2,000 mg/kg. Data considered includes: Alachlor 13300mg/kg (rat).

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

is between 1 and 5mg/L/4h. Data considered includes: Alachlor 1.04mg/L (rat).

The mixture is considered to be an eye irritant, because some of the ingredients (Alachlor)

present are considered eye irritants in more concentrated form.

Skin The mixture is not considered to be a skin irritant.

Chronic Sensitisation The mixture is considered to be a contact sensitizer, because at least one of the ingredients

(Alachlor) present in greater than 0.1% is known to be a contact sensitizer.

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

Carcinogenicity The mixture is considered to be a suspected carcinogen, because Alachlor present in

greater than 0.1% is suspected to be a carcinogen.

Reproductive / The mixture is considered to be a suspected reproductive or developmental toxicant, Developmental because Alachlor present in greater than 0.1% is suspected to be a reproductive or

developmental toxicant.

Systemic The mixture is considered to be a known or presumed target organ toxicant, because

Alachlor present in greater than 1% is known or presumed to be a target organ toxicant.

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

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

Supporting Data

Using EC $_{50}$'s for ingredients, the calculated EC $_{50}$ for the mixture is <1 mg/L. Data Aquatic

considered includes:

Alachlor short term toxicity: LC₅₀: 1mg/L (96h, rainbow trout), 2.4mg/L (saltwater mysid), EC₅₀: 0.004-0.009mg/L (96h, Selenastrum capricornutum (Green algae)), chronic toxicity:

NOEC: 0.187mg/L (rainbow trout), NOEL: 0.11mg/L (21days, Daphnia magna).

Bioaccumulation Alachlor is not bioaccumulative. Degradability Alachlor is not biodegradable in water.

Soil EPA has classified the mixture as hazardous to the soil environment.

Terrestrial vertebrate The mixture has been classified by EPA as hazardous to terrestrial vertebrates. See acute

toxicity.

Terrestrial invertebrate No data **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.

Contaminated packaging Disposal of contaminated packaging must comply with the Hazardous Substances (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 (Alachlor)

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

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR100001, Taipan. 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.

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. Persons mixing, loading, applying, or otherwise handling this product

must meet qualification requirements as set out in the current EPA Hazardous

Substances (Hazardous Property Controls) Notice.

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.

Flammable zone Not required. Fire extinguisher Not required.

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 Approval: P008619

16. Other Information

Abbreviations

Approval Code Approval HSR100001, Taipan Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

EC50 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 Exposure **STOT SE**System Target Organ Toxicity – Single Exposure

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

(usually 8 hours)

UEL 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 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

Data

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

DateReason for reviewJanuary 2023Not 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.

