



# Identification of Substance & Company

**Product** 

**Product name** Ombré® Product code NA **ACVM Approval** P009209 **HSNO** approval HSR100912 Approval description TNL3025 **UN number** 3082

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

(Alachlor)

**DG** class **Packaging group** Ш Hazchem code 3Z

Herbicide: For selective pre-emergence weed control in certain fodder, oil

and seed brassicas, peas, squash and pumpkins

**Company Details** 

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

Bell Block New Plymouth New Zealand +64 6 755 9234

Telephone: Fax: +64 6 755 1174 Website: www.arxada.co.nz

Email: office-newplymouth@arxada.com

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

### Hazard Identification

# **Approval**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR100912, TNL3025). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

## **GHS Classes**

## **Hazard Statements**

Acute toxicity category 4 (inhalation)

Eve irritant category 2 Skin sensitiser category 1 Carcinogen category 2 Reproductive toxicity category 2 STOT\* repeated exposure category 1

Acute aquatic category 1

Chronic aquatic category 1 Hazardous to terrestrial vertebrates

Hazardous to soil organisms

H332 - Harmful if inhaled.

H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. H341 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

H422 - Toxic to the soil environment. H432 - Toxic to terrestrial vertebrates.

## **SYMBOLS**

# DANGER







### **Other Classifications**

There are no other classifications that are known to apply.

<sup>\*</sup>STOT - System Target Organ Toxicity





# **Precautionary Statements**

**Prevention** 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/spray.

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/eye protection.

P281 - Use personal protective equipment as required.

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

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.

P314 - Get medical advice/attention if you feel unwell.

P391 - Collect spillage.

Storage 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	Concentration
Alachlor	15972-60-8	30-40%
Clomazone	81777-89-1	<5%
ingredients not contributing to GHS classes	mixture	50-60%

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**

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 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: There are no specific risks for fire/explosion for this chemical. It is not classed as

Carbon dioxide, extinguishing powder, foam.

flammable.

Suitable extinguishing

substances:

Unknown

Unsuitable extinguishing substances:

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:

### 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. 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 method

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 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



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

# **Physical & Chemical Properties**

**Appearance** brown liquid Odour not specified pН 7-9

Vapour pressure no data **Viscosity** no data **Boiling point** no data Volatile materials no data Freezing / melting point no data

Solubility miscible in water Specific gravity / density 1.106 (water = 1)

Flash point >105°C Danger of explosion no data **Auto-ignition temperature** no data **Upper & lower flammable limits** no data Corrosiveness no data

# Stability & Reactivity

Stability

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

heat and open flames.

None known

Incompatible groups Strong acids, oxidisers. Strong bases.

**Substance Specific** 

Incompatibility

Hazardous decomposition

products

. Hazardous reactions None known

Oxides of nitrogen and carbon. (thermal decomposition).





## 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.

**Supporting Data** 

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

>2,000 mg/kg. Data considered includes: Alachlor 903mg/kg (rat), Clomazone

1369mg/kg (rat).

**Dermal** Using LD<sub>50</sub>'s for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture

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

Inhaled Using LD<sub>50</sub>'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),

Clomazone 4.8mg/L (rat).

**Eye** 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, 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.

## **Supporting Data**

**Aquatic** Using EC<sub>50</sub>'s for ingredients, the calculated EC<sub>50</sub> for the mixture is > <1mg/L. Data

considered includes:

 $\label{eq:local_$ 

NOEC: 0.187mg/L (rainbow trout), NOEL: 0.11mg/L (21days, Daphnia magna). **Clomazone** Acute:  $LC_{50}$ : 5.2mg/L (48hr, Daphnia),  $EC_{50}$ : 2.10mg/L (48hr, Algae),

Chronic: NOEL 2.2mg/L (21 days, Daphnia magna).

Bioaccumulation Alachlor is not bioaccumulative.

Pegradability 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 hazardousto 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: HSR100912, TNL3025. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC. All ingredients appear on the 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 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.

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Location compliance certificate 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: P009209

### 16. Other Information

**Abbreviations** 

Approval Code Approval HSR100912, TNL3025 Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

EC<sub>50</sub> 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, 7<sup>th</sup> 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

**LD**<sub>50</sub> Lethal Dose 50% − dose which is fatal to 50% of a test population (usually rats).

**LC**<sub>50</sub> 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 RE**System Target Organ Toxicity – Repeated Exposure
STOT SE
System Target Organ Toxicity – Single Exposure

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** 

**Date** Reason for review

February 2022 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 and 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.

