

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: Alliacine 40EC

Product Use: Herbicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: Adria Crop Protection Solutions

Address: 407 State Highway 16

Kumeu 0841, Auckland

Telephone: +64 9 412 9817 Fax: +64 9 412 9807 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)3

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 22 February 2023

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR000823

Pictograms







Irritant

Chronic

Ecotoxic

Signal Word: Warning

Hazard Code	Hazard Statement	GHS Category
H227	Combustible liquid.	Flam. Liq. 4
H315	Causes mild skin irritation.	Skin Irrit. 2
H319	Causes serious eye irritation.	Eye Irrit. 2
H317	May cause an allergic skin reaction.	Skin Sens. 1
H351	Suspected of causing cancer.	Carc. 2
H336	May cause drowsiness or dizziness.	STOT SE 3 Narcosis
H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2

H304	May be fatal if swallowed and enters airways.	Asp. 1
H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P260	Do not breathe vapours.
P280	Wear protective clothing as detailed in Section 8.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P391	Collect spillage.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P303+P331+P336	contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use water, foam, carbon dioxide or dry chemical for
P3/U + P3/8	extinction.

Storage Code	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Chlorpropham	393 - 423g/l	101-21-3
Hydrocarbons, C10, aromatics, <1% naphthalene	> 50%	64742-94-5
Benzenesulfonic acid, mono-C11-13- branched alkyl derivs., calcium salts	< 5%	68953-96-8

Section 4. First Aid Measures

Routes of Exposure:

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.

If on Skin Wash affected areas with soap and water. If skin irritation occurs: Get

medical advice/attention.

If Swallowed Rinse mouth. If swallowed do NOT induce vomiting. Never give anything

to an unconscious person. Seek medical attention immediately if required.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position

and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed.

Symptoms: May cause drowsiness or dizziness

Ingestion: Risk of lung oedema. **Inhalation:** Not applicable.

Skin: Irritation. May cause an allergic skin reaction. Repeated exposure may

cause skin dryness or cracking.

Eye: Eye irritation.

Chronic: May cause damage to organs through repeated or prolonged exposure.

Treatment: Treat according to symptoms (decontamination, vital functions). No known

specific antidote.

Section 5. Fire Fighting Measures

Hazard Type	This product is flammable.
Hazards from	High temperature may liberate toxic gases. Halogens. Carbon
combustion	monoxide. Carbon dioxide. Hydrogen chloride. Nitrogen oxides.
products	
Suitable	Water. Foam. Carbon dioxide. Dry chemical. Use extinguishing media
Extinguishing	appropriate for surrounding fire.
media	
Recommended	Wear SCBA and chemical-protective clothing.
protective clothing	
& Precautions for	
firefighters	
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Spill and Disposal procedures:

Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to Local Council regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting.
- Use only non-sparking tools.
- Ventilation required.
- Take precautionary measures against static discharge.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Store in a well-ventilated place. Keep cool.
- Provide local exhaust or general room ventilation to minimise vapour concentrations.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls / Industrial Hygiene

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment



	Safety goggles with side-shields.
Eyes	
Hands	Wear suitable gloves resistant to chemical penetration e.g., nitrile rubber gloves with a minimum thickness of 0.4 mm.
Skin	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
Respiratory	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles.
General	Keep out of reach of children. Wear protective clothing such as impervious gloves, waterproof hat, coat, and trousers when using. Avoid contact with skin or eyes and inhalation of spray mist. Wash hands and exposed skin after use and before meals.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Yellow-Brown
Odour	Aromatic
Odour Threshold	Not available
pH	6.25 (1% solution)
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	63°C
Flammability	Not available
Upper and Lower Explosive	Not available
Limits	
Vapour Pressure	Not available

Vapour Density	Not available
vapour Density	NOT available
Density	997.4 kg/m ³
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	470°C
Decomposition Temperature	Not available
Viscosity	3.31 mm ² /s (20°C - OECD 114)
Particle Characteristics	Not available
Surface tension	30.8 (25°C)

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous	May release flammable gases.
reactions	
Conditions to Avoid	None known.
Incompatible Materials	None known.
Hazardous Decomposition	According to process conditions, hazardous decomposition
Products	products may be generated. Thermal decomposition
	generates: Carbon dioxide. Carbon monoxide. Halogens.
	Nitrogen oxides.

Section 11 Toxicological Information

Acute Effects:

Oral	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Causes mild skin irritation.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	May be fatal if swallowed and enters airways.	
STOT/SE	May cause drowsiness or dizziness.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Alliacine 40EC	>2000mg/kg (Rats)	>4000mg/kg	
Chlorpropham	4200mg/kg (Rats)	>2000mg/kg	1.98 mg/l/4h

Section 12. Ecotoxicological Information

Ecological effects information	Toxic to aquatic life with long lasting effects.	
Persistence and degradability	Hydrocarbons – inherently biodegradable.	
Bioaccumulation Low (Chlorpropham)		
Mobility in Soil No data available		
Other adverse effects	No data available	

Acute fish toxicity:	LC50 = 9.63 mg/l	
Toxicity for daphnia:	EC50 = 8.84 mg/l (48h Daphnia magna)	
Toxicity to algae: $ERC50 = 4.61 \text{ mg/l}$		
Precautions:	Do not allow to enter waterways.	

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S (Chlorpropham)
Marine Pollutant	Yes
Special Provisions-	If the product's individual container is below 5L/kg, it can be
Limited Quantities	transported as a non-DG as long as the product packaging is still
	labelled as per DG requirements and the driver is given safety
	information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR000823

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	500L(>5L), 1500L(<5L), 250L open
Signage Trigger Quantities (Schedule 3)	1000L
Emergency Response Plan (Schedule 5)	1000L
Secondary Containment (Schedule 5)	1000L
Tracking (Schedule 26)	Not required

For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls		
	document - HSR000823		
HSNO Additional Controls (Restrictions of use)			
77A	This substance must not be applied onto or		
	into water.		
Hazardous Property Controls Notice 2017			
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be		
	appropriate		
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides		
	and plant growth regulators		
HPC Notice Part 4 Subpart A	Site and storage controls for class 9		
	substances		
HPC Notice Part 4 Subpart C	Qualifications required for application of		
	class 9 pesticides.		
ACVM Act and Regulations			
ACVM Approval No	P005579		
See <u>www.foodsafety.govt.nz</u> for registration			
controls			

Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Glossary

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Adria, if further information is required.

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22 February 2023

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