

Genfarm Alachlor 480 Herbicide

Version number: 1.0

Date of compilation: 16.06.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name **Genfarm Alachlor 480 Herbicide**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses **Herbicide**

1.3 Details of the supplier of the safety data sheet

Nutrien Ag Solutions New Zealand Limited
37 Westward Way
Methven, 7730, New Zealand
Email: adminnz@nutrien.com

Telephone: 021 0831 6608
Emergency Phone Number: National Poisons Centre - 0800 764 766 (0800 POISON)

Imported/Manufactured by:
Nutrien Ag Solutions Limited
Level 5, Building A; 26 Talavera Road
Macquarie Park NSW 2113
Australia

Telephone: +61 (02) 9889 5400

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Hazardous Substances (Hazard Classification) Notice 2020.

Classified as Dangerous Goods according to the New Zealand Standard NZS 5433:2020 - Transport of dangerous goods on land.

Classification acc. to GHS

Hazard class	Category	Classification code
Acute toxicity (oral)	4	H302
Acute toxicity (inhal.)	4	H332
Serious eye damage/eye irritation	1	H318
Skin sensitisation	1	H317
Carcinogenicity	2	H351
Specific target organ toxicity - repeated exposure	1	H372
Aspiration hazard	1	H304
Hazardous to the aquatic environment - acute hazard	1	H400
Hazardous to the aquatic environment - chronic hazard	1	H410

Supplemental hazard information

Hazardous to soil organisms. Hazardous to terrestrial vertebrates.

For full text of abbreviations: see SECTION 16.

Genfarm Alachlor 480 Herbicide

Version number: 1.0

Date of compilation: 16.06.2025

2.2 Label elements

Signal word

Danger

Pictograms



Hazard statements

H302+H332	Harmful if swallowed or if inhaled.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Hazardous to soil organisms. Hazardous to terrestrial vertebrates.

Precautionary statements

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to industrial combustion plant.

SECTION 3: Composition/information on ingredients

Mixture of substances as listed below.

Description of the mixture

Mixture of substances listed below with ingredients not classified as hazardous.

Name of substance	CAS No	Wt%	Classification acc. to GHS
Alachlor	15972-60-8	40 – 50	Acute Tox. 4 / H302 Skin Sens. 1 / H317 Carc. 2 / H351 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Genfarm Alachlor 480 Herbicide

Version number: 1.0

Date of compilation: 16.06.2025

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation persists: Get medical advice/attention. Persons who become sensitised may require specialised medical management with anti-inflammatory agents.

Following eye contact

Remove contact lenses, if present and easy to do. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Get immediate medical advice/attention.

Following ingestion

Keep at rest. Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get emergency medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. Harmful if swallowed. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. Skin contact may cause mild irritation. Inhalation of mist may cause respiratory irritation. May be fatal if swallowed and enters airways.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Product is not flammable. However, it may burn in a larger fire.

Hazardous combustion products include oxides of carbon, oxides of nitrogen, and hydrogen chloride.

HAZCHEM (Emergency Action) Code: 3Z

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ventilate affected area. Prevent skin contact. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Collection and use of expertise.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Bunding, Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

Genfarm Alachlor 480 Herbicide

Version number: 1.0

Date of compilation: 16.06.2025

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Handle and open container with care.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated area. Keep container tightly closed. Protect from sunlight. Do not store at temperature below 0°C, and above 50°C. Keep away from strong acids, and strong bases.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. Use safety goggle with side protection. Use protective eyewear to guard against splash of liquids.

Skin protection

- Hand protection

Wear protective gloves. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wash hands and face thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours) according to AS/NZS1716 standards.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	red brown
Odour	no data available
Boiling point	not determined
Flammability	this material is combustible, but will not ignite readily

Genfarm Alachlor 480 Herbicide

Version number: 1.0

Date of compilation: 16.06.2025

Flash point	95 °C
Decomposition temperature	no data available
pH (value)	4 – 7
Density	1.06 g/cm ³
Water solubility	miscible in any proportion

SECTION 10: Stability and reactivity

10.1 Chemical stability

Stable under normal conditions of use.

10.2 Possibility of hazardous reactions

No known hazardous reactions.

10.3 Conditions to avoid

UV-radiation/sunlight. Keep away from incompatible materials. Do not store below 0°C and above 50°C.

10.4 Incompatible materials

Strong acids and strong bases.

10.5 Hazardous decomposition products

Oxides of carbon, oxides of nitrogen, and hydrogen chloride.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Harmful if swallowed. Harmful if inhaled.

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Alachlor	15972-60-8	oral	LD50	930 mg/kg	rat
Alachlor	15972-60-8	inhalation: dust/mist	LC50	1.04 mg/l/4h	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Genfarm Alachlor 480 Herbicide

Version number: 1.0

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- Specific target organ toxicity - single exposure
Shall not be classified as a specific target organ toxicant (single exposure).
- Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.
- Aspiration hazard
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Alachlor	15972-60-8	LC50	1.8 mg/l	rainbow trout (Onco-rhynchus mykiss)	96 h
Alachlor	15972-60-8	EC50	10 mg/l	water flea (Daphnia)	48 h
Alachlor	15972-60-8	EC50	0.966 mg/l	green algae	48 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions.

Waste treatment of containers/packageings

Only packageings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packageings can be recycled. Handle contaminated packageings in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

UN number

UN RTDG, IMDG, IATA UN 3082

UN proper shipping name

UN RTDG, IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains alachlor)

Genfarm Alachlor 480 Herbicide

Version number: 1.0

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Transport hazard class(es)

UN RTDG, IMDG, IATA 9

Packing group

UN RTDG, IMDG, IATA III

Danger label(s)



Special provisions (SP) 274, 331, 335, 363

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

HAZCHEM (Emergency Action) Code 3Z

Marine pollutant YES (hazardous to the aquatic environment) (alachlor)

ERG (ANZ 2024) Guide No. 171

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Agricultural Compounds and Veterinary Medicines Act 1997

Registered pursuant to the ACVM Act 1997, No. P010377.

Hazardous Substances and New Organisms Act 1996

Approved pursuant to the HSNO Act 1996. Approval Code HSR101602.

SECTION 16: Other information

Abbreviations and acronyms

Acute Tox.	acute toxicity
Aquatic Acute	hazardous to the aquatic environment - acute hazard
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard
Carc.	carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
PBT	Persistent, Bioaccumulative and Toxic
Skin Sens.	skin sensitisation
vPvB	very Persistent and very Bioaccumulative

Key literature references and sources for data

Hazardous Substances (Safety Data Sheets) Notice 2017.

Genfarm Alachlor 480 Herbicide

Version number: 1.0

Date of compilation: 16.06.2025

New Zealand Standard NZS 5433:2020 - Transport of dangerous goods on land.

Disclaimer

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