

acc. to Environmental Protection Authority New Zealand

# **Genfarm Desmed + Phemed Herbicide**

Version number: 1.0

Date of compilation: 20.06.2025

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

### 1.1 Product identifier

Trade name

**Genfarm Desmed + Phemed 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
Flammable liquid	4	H227
Serious eye damage/eye irritation	2	H319
Skin sensitisation	1	H317
Reproductive toxicity	2	H361d
Specific target organ toxicity - repeated exposure	2	H373
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.

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Signal word

Warning



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### **Pictograms**



#### Hazard statements

H227	Combustible liquid.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

#### Hazardous to soil organisms.

#### Precautionary statements

11,000	idelonially seacem	TCTTC5
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.
P308+ P314	-P313	IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.
P333+		If skin irritation or rash occurs: Get medical advice/attention.
P337+		If eye irritation persists: Get medical advice/attention.
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

Product of ingredients listed below and other ingredients.

Name of substance	CAS No	Wt%	Classification acc. to GHS
Phenmedipham	13684-63-4	10 – 20	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
Desmedipham	13684-56-5	10 – 20	Repr. 2 / H361d 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. In case of respiratory tract irritation, consult a physician. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

## 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.

#### 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. If eye irritation persists: Get medical advice/attention.



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Following ingestion

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

#### Most important symptoms and effects, both acute and delayed 4.2

Causes serious eye irritation. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. Skin contact may cause mild irritation. Inhalation of mist may cause respiratory irritation.

## **SECTION 5: Firefighting measures**

#### Extinguishing media 5.1

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water let

#### 5.2 Special hazards arising from the substance or mixture

Combustible liquid.

Hazardous combustion products include oxides of carbon, oxides of nitrogen, and amines. HAZCHEM (Emergency Action) Code: 3Z
In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors.

#### 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**

#### 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.

#### Methods and material for containment and cleaning up 6.3

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.



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## 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.
- Handling of incompatible substances or mixtures
- Keep away from

Caustic solutions

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. May damage the unborn child. Pregnant women must not handle this product.

#### 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. Keep away from strong acids, and strong oxidising agents.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- 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

Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air exchange.

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.



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## SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

liquid		
yellow to brown, clear		
slight		
not determined		
combustible liquid		
90 °C		
no data available		
2-5		
1.01 <sup>g</sup> / <sub>cm³</sub>		

into water
11 11

# **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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. UV-radiation/sunlight. Keep away from incompatible materials.

#### 10.4 Incompatible materials

Strong acids, strong bases, and strong oxidising agents.

#### 10.5 Hazardous decomposition products

Oxides of carbon, oxides of nitrogen, and amines.

### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components						
Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Notes
Desmedipham	13684-56-5	oral	LD50	>2,000 <sup>mg</sup> /kg	rat	
Desmedipham	13684-56-5	dermal	LD50	>2,000 <sup>mg</sup> /kg	rat	
Desmedipham	13684-56-5	inhalation: dust/mist	LC50	>7.4 <sup>mg</sup> / <sub>I</sub> /4h	rat	nose only



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Acute toxicity of components						
Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Notes
Phenmedipham	13684-63-4	oral	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	rat	
Phenmedipham	13684-63-4	dermal	LD50	2,500 <sup>mg</sup> / <sub>kg</sub>	rat	
Phenmedipham	13684-63-4	inhalation: dust/mist	LC50	>7 <sup>mg</sup> /ı/4h	rat	nose only

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

# SECTION 12: Ecological information

#### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

	Aqua	tic toxicity (acut	e) of componen	its	
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Desmedipham	13684-56-5	LC50	1.41 <sup>mg</sup> /i	rainbow trout (Onco- rhynchus mykiss)	96 h
Desmedipham	13684-56-5	EC50	0.35 <sup>mg</sup> / <sub>I</sub>	water flea (Daphnia)	48 h
Desmedipham	13684-56-5	EC50	0.01 <sup>mg</sup> /I	green algae	72 h
Phenmedipham	13684-63-4	LC50	1.84 <sup>mg</sup> / <sub>1</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h
Phenmedipham	13684-63-4	EC50	2.03 <sup>mg</sup> / <sub>l</sub>	water flea (Daphnia)	48 h
Phenmedipham	13684-63-4	EC50	0.086 <sup>mg</sup> / <sub>I</sub>	green algae	72 h



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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Desmedipham	13684-56-5	NOEC	0.2 <sup>mg</sup> /ı	rainbow trout (Onco- rhynchus mykiss)	21 d
Desmedipham	13684-56-5	NOEC	0.01 <sup>mg</sup> /I	water flea (Daphnia)	21 d
Desmedipham	13684-56-5	NOEC	0.01 <sup>mg</sup> /ı	green algae	96 h
Phenmedipham	13684-63-4	NOEC	0.041 <sup>mg</sup> / <sub>1</sub>	rainbow trout (Onco- rhynchus mykiss)	21 d
Phenmedipham	13684-63-4	NOEC	0.061 <sup>mg</sup> / <sub>I</sub>	water flea (Daphnia)	21 d

### 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/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages 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 phenmedipham, desmedipham)

Transport hazard class(es)

UN RTDG, IMDG, IATA

9

**Packing group** 

UN RTDG, IMDG, IATA

III



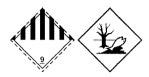
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Danger label(s)



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) (desmedipham)

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. P10393.

Hazardous Substances and New Organisms Act 1996

Approved pursuant to the HSNO Act 1996. Approval Code HSR101207.

### **SECTION 16: Other information**

### Abbreviations and acronyms

Aquatic Acute	hazardous to the aquatic environment - acute hazard
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard
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
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
Repr.	reproductive toxicity
vPvB	very Persistent and very Bioaccumulative

# Key literature references and sources for data

Hazardous Substances (Safety Data Sheets) Notice 2017.

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

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Nutrien Ag Solutions makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet.