

Safety Data Sheet

BASF Safety Data Sheet

Date / Revised: 25.06.2026

Product: **TERPAL®**

(Ref ID no. 30035202/SDS_CPA_NZ/EN; Version: 6.0)

1. Identification

Product identifier

TERPAL®

Recommended uses and restrictions on use (if any)

Recommended use:

crop protection product, plant growth regulator.

Restricted use:

Use according to label.

Manufacturer / Supplier

BASF New Zealand Limited
5E City Works Depot,
77 Cook Street
Auckland 1010
NEW ZEALAND

Phone: + 64 9 255 4300
0800 932 273

E-mail address: reception@basf-nz.co.nz

Emergency telephone number

National Poisons Centre: 0800 764 766

BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)

2. Hazard Identification

Classification of the substance or mixture

Corrosive to metals	:	Category 1
Acute oral toxicity	:	Category 4
Specific target organ toxicity - repeat exposure	:	Category 2
Aquatic environment - chronic	:	Category 3
Hazardous to soil organisms		
Hazardous to terrestrial vertebrates		

GHS Label Elements, including Precautionary Statements:

Signal Word:

WARNING.

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Pictograms:



GHS Hazard Statements

H290 : Corrosive to metals.
 H302 : Harmful if swallowed.
 H373 : May cause damage to organs through prolonged or repeated exposure.
 H412 : Harmful to aquatic life with long lasting effects.
 : Hazardous to soil organisms.
 : Hazardous to terrestrial vertebrates.

GHS Precautionary Statements (Prevention)

P102 : Keep out of reach of children.
 P103 : Read label before use.
 P234 : Keep only in original packaging.
 P260 : Do not breathe mist, vapours and spray.
 P264 : Wash hands and face thoroughly after handling.
 P270 : Do not eat, drink or smoke when using this product.

GHS Precautionary Statements (Response)

P390 : Absorb spillage to prevent material-damage.
 P101 : If medical advice is needed, have product container or label at hand.
 P301 + P312 : IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
 P330 : Rinse mouth.
 P314 : Get medical advice / attention if you feel unwell.
 P391 : Collect spillage.

GHS Precautionary Statements (Storage)

P406 : Store in a corrosive resistant container with a resistant inner liner.

GHS Precautionary Statements (Disposal):

P501 : Dispose of contents/container to hazardous or special waste collection point.
 Information regarding disposal considerations can be found in section 13.

Other hazards

No other hazards known.
 See section 12 - Results of PBT and vPvB assessment.

To avoid risks to human health and the environment, comply with the instructions for use.
 If applicable, information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Hazardous ingredients (GHS)

According to UN GHS criteria

Mepiquat-chloride	
Content (W/W):	27.98 %
CAS Number:	24307-26-4

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Ethephon
Content (W/W): 14.2 %
CAS Number: 16672-87-0

4. First-Aid Measures

Description of necessary first aid measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms:

Information, i.e. additional information on symptoms and effects may be included in the GHS labelling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further symptoms and / or effects are not known so far.

Indication of any immediate medical attention and special treatment needed

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Medical advice:

Contact the National Poisons and Hazardous Chemicals Information centre.
Phone 0800 POISON (0800 764 766).

5. Fire-Fighting Measures

Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide

Specific hazards

carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, phosphorus compounds, halogenated compounds

The substances/groups of substances mentioned can be released in case of fire.

No specific precautions necessary. The substance is non-combustible. Product is not explosive.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and chemical-protective clothing.

Precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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6. Accidental Release Measures

Personal precautions, Protective equipment and Emergency procedures

Do not breathe vapour/spray.
Use personal protective clothing.
Avoid contact with the skin, eyes and clothing.

Environmental precautions

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

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.
Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and Storage

Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions:

Keep only in the original container. Keep away from heat. Protect from direct sunlight.

Storage stability: 60 months.

Protect from temperatures below -10°C.
Changes in the properties of the product may occur if substance / product is stored below indicated temperature for extended periods of time.

Protect from temperatures above 40°C.
Changes in the properties of the product may occur if substance / product is stored above indicated temperature for extended periods of time.

8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

No substance specific occupational exposure limits known.

Engineering controls

Maintain air concentrations below occupational exposure standards.

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Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK-P3).

Hand protection:

Suitable chemical resistant safety gloves (EN 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	Liquid
Colour:	Colourless
Odour:	aromatic
Odour threshold:	Not determined due to potential health hazard by inhalation
pH value:	Approx. 1.1 – 3.1 (1% (m), 20°C)
Crystallization temperature:	Approx. -14.9°C
Boiling point:	Approx. 100°C
Flash point:	No flash point – measurement made up to the boiling point
Evaporation rate:	Not applicable
Flammability:	Not applicable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Ignition temperature:	Approx. 415°C
Vapour pressure:	Approx. 23 hPa (20°C) (Information applies to the solvent)
Density:	Approx. 1.09 g/cm ³ (20°C)
Relative vapour density (air):	Not applicable
Solubility in water:	Fully soluble The statements are based on the properties of the individual components.
Partitioning coefficient n-octanol/water (log Pow):	Information on: mepiquat-chloride. 2.82 (pH value: 7) The values mentioned are those of the active ingredient.
Thermal decomposition:	No decomposition if stored and handled as prescribed / indicated.
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.

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Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.
Viscosity, dynamic: Approx. 4.1 mPa.s (20°C)

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

See SDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Incompatible materials / Substances to avoid

Strong acids, strong bases, strong oxidizing agents

Corrosion to metals: Aluminium

Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually non-toxic by inhalation. Virtually non-toxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): >500 - <2,000 mg/kg

LC50 rat (by inhalation): >5.3 mg/l 4 h
No mortality was observed. An aerosol was tested.

LD50 rat (dermal): >4,000 mg/kg
No mortality was observed.

Skin Corrosion / Irritation

Assessment of irritating effects:

Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious Eye Damage / Irritation

Assessment of irritating effects:

Not irritating to the eyes.

Experimental/calculated data:

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Serious eye damage/irritation rabbit: non-irritant.

Respiratory or Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

Guinea pig maximisation test: Skin sensitising effects were not observed in animal studies.

Germ cell mutagenicity

Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity:

The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance specific organ-toxicity was observed after repeated administration to animals. Prolonged or repeated exposure may cause damage to kidneys and nervous system. The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity - Aquatic

Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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Toxicity to fish:

LC50 (96 h): >100 mg/l, *Oncorhynchus mykiss*

NOEC (28 d): <1 mg /l *Oncorhynchus mykiss*

Aquatic invertebrates:

EC50 (48 h): >100 mg/l, *Daphnia magna*

Aquatic plants:

EC10 (72 h): >1,000 mg/l, *Pseudokirchneriella subcapitata*

EC50 (7 d): >100 mg/l (growth rate), *Lemna gibba*

NOEC (7 d): 0.001 mg/l (growth rate), *Lemna gibba*

Ecotoxicity – Terrestrial

Assessment of terrestrial toxicity:

Hazardous to soil organisms and terrestrial vertebrates. The product has not been tested. The statement has been derived from the properties of the substances/products of a similar structure or composition or the active ingredient.

Toxicity to birds:

Acute oral LD50 (8 d): >2,000 mg ai/l, *Colinus virginianus*, mepiquat-chloride

Acute oral LD50: 764 mg ai/l, *Colinus virginianus*, ethephon

Toxicity to soil organisms:

LC50 (14d): 319.5 mg ai/kg, *Eisenia fetida*, mepiquat-chloride

LC50 (14d): >165.4 mg ai/kg, *Eisenia fetida*, ethephon

Toxicity to Pollinators:

LD50 (oral): >107.4 µg ai/bee, *Apis mellifera*, mepiquat-chloride

LD50 (contact): >100 µg ai/bee, *Apis mellifera*, mepiquat-chloride

LD50 (oral): >116.5 µg ai/bee, *Apis mellifera*, ethephon

LD50 (contact): >100 µg ai/bee, *Apis mellifera*, ethephon

Persistence and degradability

Assessment biodegradation and elimination (H2O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: mepiquat-chloride

Assessment biodegradation and elimination (H2O):

Readily biodegradable.

Information on: ethephon

Assessment biodegradation and elimination (H2O):

Not readily biodegradable.

Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

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Information on: mepiquat-chloride

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Information on: ethephon

Bioaccumulation potential:

Accumulation in organisms is not to be expected. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Mobility in soil

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: ethephon

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: mepiquat-chloride

Assessment transport between environmental compartments:

Following exposure to soil, the product trickles away and can - dependent on degradation - be transported to deeper soil areas with larger water loads.

Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Other adverse effects

Other ecotoxicological advice:

Do not discharge product into the environment without control.

Do not apply onto or into water.

13. Disposal Considerations

Container:

Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, www.agrecovery.co.nz). Do not use container for any other purpose.

Product:

Dispose of this product only by using according to the label or at an approved facility. Do NOT burn product. Do NOT contaminate water with product or used container.

Waste product/packaging may be sent to a suitable incineration plant, observing local regulations.

Contaminated Packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance / product.

14. Transport Information

Commercial transport:

Classified as dangerous good(s) for Land/rail (ADR/RID), sea (IMDG) and air transport (ICAO/IATA):

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Land / Rail / Road (ADR/RID):

UN number:	UN 3265
UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ethephon) CORROSIVE ON ALUMINIUM
Transport hazard class(es) / UN DG Class:	8, (EHSM)
Packing group:	III
Environmental hazards:	Marine pollutant
HAZCHEM:	2X
IERG Number:	36
Special precautions when transporting the substance:	None known

Sea transport (IMDG):

UN number:	UN 3265
UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ethephon) CORROSIVE ON ALUMINIUM
Transport hazard class(es):	8, (EHSM)
Packing group:	III
Environmental hazards:	marine pollutant
Marine pollutant:	Yes
Special precautions when transporting the substance:	EmS: F-A; S-b

Air transport (IATA / ICAO):

UN number:	UN 3265
UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ethephon) CORROSIVE ON ALUMINIUM
Transport hazard class(es):	8, (EHSM)
Packing group:	III
Environmental hazards:	No mark as dangerous for the environment is needed
Special precautions when transporting the substance:	None known

15. Regulatory Information**HSNO Approval Number**

HSR000806.
 See www.epa.govt.nz for approval conditions.

Tolerable Exposure Limit or Environmental Exposure Limit

TEL:	None set
EEL:	None set

Relevant Regulatory Requirements

Qualifications:	Not required
Certified Handler:	Not required
Tracking:	Not required
Record Keeping:	Not required
Restricted to Workplace:	Not applicable
Controlled substance licence:	Not required

ACVM Registration

P003483
 See www.foodsafety.govt.nz/acvm for registration conditions.

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International Agreements related to the substance such as Montreal Protocol, the Stockholm Convention or Rotterdam Convention

not applicable

16. Other Information

Date of preparation of the SDS

25 June 2026

Key or legend to abbreviations and acronyms used

ACGIH	The American Conference of Governmental Industrial Hygienists
ACVM	Agricultural Compounds and Veterinary Medicines
ADN	International Carriage of Dangerous Goods by Inland Waterways (EU)
ADR/RID	Dangerous Goods for Road / Rail
DG	Dangerous Goods
EC50	Median effective concentration
EEL	Environmental Exposure Limit
EHSM	Environmental Health and Safety Management
EPA	Environmental Protection Authority
EU	European Union
GHS	Globally Harmonised System
ICAO	International Civil Aviation Organisation
IATA	International Air Transport Association
IERG	International Emergency Response Guide
IMDG	International Maritime Dangerous Goods
LD50	Lethal concentration to 50% of the test population
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OEL	Operator Exposure Limits
PBT or vPvP	Persistent / Bioaccumulative / Toxic or very Persistent / very Bioaccumulative
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TDG	Transportation of Dangerous Goods
TEL	Tolerable Exposure Limit
TLVs	Threshold Limit Values
UN GHS	United Nations Globally Harmonised System
WES	Workplace Exposure Standards
49CFR	Code of Federal Regulations Title 49 for Transportation

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 are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.