

Safety Data Sheet

BASF Safety Data Sheet

Date / Revised: 29.11.2023

Version: 10.0

Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

1. Identification

Product identifier

ZAMPRO®

Recommended uses and restrictions on use (if any)

Recommended use:

crop protection product, fungicide.

Restricted use:

Use according to label.

Manufacturer / Supplier

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

Acute oral toxicity (Oral)	:	Category 4
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeat exposure	:	Category 2
Aquatic environment - chronic	:	Category 3
Hazardous to terrestrial vertebrates	:	

GHS Label Elements, including Precautionary Statements:

Signal Word:

WARNING.

BASF Safety Data Sheet
Date / Revised: 29.11.2023
Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

Pictograms:GHS Hazard Statements

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 terrestrial vertebrates.

GHS Precautionary Statements (Prevention)

P102 : Keep out of reach of children.
P103 : Read label before use.
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)

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.

GHS Precautionary Statements (Storage)

No specific storage requirements.

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

MixturesHazardous ingredients (GHS)

According to UN GHS criteria

Ametoctradin (ISO)	
Content (W/W):	26.93 %
CAS Number:	865318-97-4
Dimethomorph technical	
Content (W/W):	20.2 %
CAS Number:	110488-70-5

BASF Safety Data Sheet
Date / Revised: 29.11.2023
Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt

Content (W/W): <5 %
CAS Number: 102980-04-1

Propane-1,2-diol

Content (W/W): <10 %
CAS Number: 57-55-6

4. First-Aid Measures

Description of necessary first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

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

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

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

Unsuitable extinguishing media for safety reasons

Water jet

Specific hazards

carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, halogenated compounds, silica compounds, sulfur oxides

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

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

BASF Safety Data Sheet
Date / Revised: 29.11.2023
Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

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.

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. Wear suitable protective equipment.

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 away from heat. Protect from direct sunlight.

Storage stability: 60 months.

Protect from temperatures below -5°C.
The product can crystallize below the limit temperature.

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.

BASF Safety Data Sheet
 Date / Revised: 29.11.2023
 Product: ZAMPRO®

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

Component: propane-1,2-diol
 CAS Number: 57-55-6
 TWA Value: 10 mg/m³ Particulate (source: WES 2022)
 TWA Value: 150 ppm / 474 mg/m³ Vapour and Particulates (source: WES 2022)

Component: dimethomorph
 CAS Number: 110488-70-5
 TWA Value: 0.67 mg/m³ (source: BASF recomm. Occupational Exposure Limit)

Component: ametoctradin
 CAS Number: 865318-97-4
 TWA Value: 28.21 mg/m³ (source: BASF recomm. Occupational Exposure Limit)

Engineering controls

Maintain air concentrations below occupational exposure standards.

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:	White
Odour:	Faintly aromatic
Odour threshold:	Not determined due to potential health hazard by inhalation
pH value:	Approx. 6 – 8 (1% (m), 20°C)
Freezing point:	Approx. -6.2°C
Boiling point:	Approx. 100°C (1,013 hPa)
Flash point:	No flash point -measurement made up to the boiling point.
Evaporation rate:	Not applicable
Flammability:	Not applicable

BASF Safety Data Sheet
 Date / Revised: 29.11.2023
 Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

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:	463°C
Vapour pressure:	Approx. 23 hPa (Information applies to the solvent)
Density:	Approx. 1.11 g/cm ³ (approx. 20°C)
Relative vapour density (air):	Not applicable
Solubility in water:	Dispersible The statements are based on the properties of the individual components.
Partitioning coefficient n-octanol/water (log Pow):	Information on: Dimethomorph tech. 2.63 - 2.73 (20°C) The values mentioned are those of the active ingredient.
Thermal decomposition:	220°C, 20 kJ/kg 285°C, 340 kJ/kg Not a substance liable to self-decomposition according to UN transport regulations, Class 4.1
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.
Fire promoting properties:	Not fire-propagating
Viscosity, dynamic:	Approx. 81 mPa.s (20°C, 100 1/s)

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: 220°C, 20 kJ/kg (DSC)

Thermal decomposition: 285°C, 340 kJ/kg (DSC)

Thermal decomposition: Not a substance liable to self-decomposition according to UN transport regulations, Class 4.1

Incompatible materials / Substances to avoid

Strong acids, strong bases, strong oxidizing agents

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 after a single skin contact. Virtually non-toxic by inhalation.

Experimental/calculated data:

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

LC50 rat (by inhalation): >5.1 mg/l 4 h
No mortality was observed. An aerosol was tested.

LD50 rat (dermal): >5,000 mg/kg

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:

Serious eye damage/irritation rabbit: non-irritant.

Respiratory or Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitising potential.

Experimental/calculated data:

Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

Mouse Local Lymph Node Assay (LLNA) mouse: Skin sensitizing 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.

BASF Safety Data Sheet
 Date / Revised: 29.11.2023
 Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

Information on: dimethomorph (ISO):

Assessment of reproduction toxicity:

The results of animal studies suggest a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

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

Information on: dimethomorph (ISO)

Assessment of teratogenicity:

Indications of possible developmental toxicity / teratogenicity were seen in animal studies.

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.

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

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

Assessment of repeated dose toxicity:

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

Information on: dimethomorph (ISO)

Assessment of repeated dose toxicity:

The substance may cause damage to the prostate after repeated ingestion.

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.

Toxicity to fish:

LC50 (96 h): 23.2 mg/l, *Oncorhynchus mykiss*

EC10 (60 d): 0.116 mg ai/l, *Oncorhynchus mykiss*, dimethomorph (ISO)

NOEC (34 d): 0.107 mg ai/l, *Pimephales promelas*, dimethomorph (ISO)

Aquatic invertebrates:

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

NOEC (21 d): 0.044 mg ai/l, *Daphnia magna*, ametocradine (ISO)

BASF Safety Data Sheet
 Date / Revised: 29.11.2023
 Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

NOEC (21 d): 0.22 mg ai/l, *Daphnia magna*, dimethomorph (ISO)
 EC10 (21 d): 0.421 mg ai/l, *Daphnia magna*, dimethomorph (ISO)

Aquatic plants:

EC50 (72 h): 74.2 mg/l (growth rate), *Pseudokirchneriella subcapitata*

Ecotoxicity - TerrestrialAssessment of terrestrial toxicity:

Hazardous to terrestrial vertebrates. The product has not been tested. The statement has been derived from the properties of the active ingredient.

Toxicity to birds:

Acute oral LD50: >2,000 mg ai/l, *Anas platyrhynchos*, ametoctradine ISO

Acute oral LD50 (8 d): >2,000 mg ai/l, *Colinus virginianus*, dimethomorph ISO

Toxicity to soil organisms:

LC50 (14d): >1,000 mg ai/kg, *Eisenia fetida*, ametoctradine (ISO)

LC50 (14d): >500 mg ai/kg, *Eisenia fetida*, dimethomorph (ISO)

Toxicity to Pollinators:

LD50 (oral): >111.5 µg ai/bee, *Apis mellifera*, ametoctradine (ISO)

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

LD50 (oral): >32.4 µg ai/bee, *Apis mellifera*, dimethomorph (ISO)

LD50 (contact): >102 µg ai/bee, *Apis mellifera*, dimethomorph (ISO)

Persistence and degradabilityAssessment biodegradation and elimination (H2O):

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

Information on: ametoctradine (ISO)

Assessment biodegradation and elimination (H2O):

According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Information on: dimethomorph (ISO)

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

Bioaccumulative potentialAssessment bioaccumulation potential:

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

Information on: ametoctradine (ISO)

Bioaccumulation potential:

Bioconcentration factor: 197 - 202, *Lepomis macrochirus*

Accumulation in organisms is not to be expected.

Information on: dimethomorph (ISO)

Bioaccumulation potential:

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

BASF Safety Data Sheet
Date / Revised: 29.11.2023
Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

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: ametoctradine (ISO)

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: dimethomorph (ISO)

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

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

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/package 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):

Land / Rail / Road (ADR/RID):

UN number:

UN 3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (contains
Ametoctradin, Dimethomorph)

BASF Safety Data Sheet
 Date / Revised: 29.11.2023
 Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

Transport hazard class(es) / UN DG Class: 9, (EHSM)
 Packing group: III
 Environmental hazards: Marine pollutant
 HAZCHEM: 3Z
 IERG Number: 47
 Special precautions when transporting the substance: None known

Sea transport (IMDG):

UN number: UN3082
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S. (contains
 Ametoctradin, Dimethomorph)
 Transport hazard class(es): 9, EHSM
 Packing group: III
 Environmental hazards: marine pollutant
 Marine pollutant: Yes
 Special precautions when transporting the substance: EmS: F-A; S-F

Air transport (IATA / ICAO):

UN number: UN3082
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S. (contains
 Ametoctradin, Dimethomorph)
 Transport hazard class(es): 9, EHSM
 Packing group: III
 Environmental hazards: Yes, marine pollutant
 Special precautions when transporting the substance: None known

Additional Information:

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3).

15. Regulatory Information**HSNO Approval Number**

HSR100709.
 See www.epa.govt.nz for approval conditions.

Tolerable Exposure Limit or Environmental Exposure Limit

TEL: None set
 EEL: None set

BASF Safety Data Sheet
 Date / Revised: 29.11.2023
 Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

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

P008177

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

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

29 November 2023

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
Recomm.	Recommended
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.

BASF Safety Data Sheet

Date / Revised: 29.11.2023

Product: **ZAMPRO®**

(Ref ID no. 30561355/SDS_CPA_NZ/EN)

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.