

Safety Data Sheet

BASF Safety Data Sheet

Date / Revised: 08.11.2023

Version: 5.0

Product: **BASAGRAN®**

(30035190/SDS_CPA_NZ/EN)

1. Identification

Product identifier

BASAGRAN®

Recommended uses and restrictions on use (if any)

Recommended use:

crop protection product, herbicide.

Restricted use:

not applicable

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

Acute oral toxicity	:	Category 4
Eye irritation	:	Category 2
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Aquatic environment - acute	:	Category 1
Aquatic environment - chronic	:	Category 2
Hazardous to terrestrial vertebrates	:	

GHS Label Elements, including Precautionary Statements:

Signal Word:

WARNING.

Pictograms:



GHS Hazard Statements

H302	: Harmful if swallowed.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H361	: Suspected of damaging the unborn child.
H400	: Very toxic to aquatic life.
H411	: Toxic 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.
P201	: Obtain special instructions before use.
P202	: Do not handle until all safety precautions have been read and understood.
P264	: Wash hands and face thoroughly after handling.
P270	: Do not eat, drink or smoke when using this product.
P272	: Contaminated clothing should not be allowed out of the workplace.
P280	: Wear protective gloves, protective clothing, eye/face protection.
P281	: Use personal protective equipment as required.

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.
P302 + P352	: IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	: IF exposed or concerned: Get medical advice / attention.
P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	: Specific treatment (see supplemental first aid instructions on this label).
P333 + P313	: If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	: If eye irritation persists: Get medical advice/ attention.
P363	: Wash contaminated clothing before reuse.
P391	: Collect spillage.

GHS Precautionary Statements (Storage)

P405	: Store locked up.
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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.
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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.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Hazardous ingredients (GHS)

According to UN GHS criteria

Bentazone sodium tech	
Content (W/W):	44 %
CAS Number:	50723-80-3

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, consult an eye specialist.

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, carbon dioxide, nitrogen oxides, sulfur oxides

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

No special precautions necessary. The substance/product 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.

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 0°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.

8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

No occupational exposure limits known.

Engineering controls

Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection:

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

Hand protection:

Suitable chemical resistant safety gloves (EN 374) 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:	Yellow to red to brown
Odour:	Fruity, faint odour
Odour threshold:	Not determined due to potential health hazard by inhalation
pH value:	Approx. 6 – 7 (CIPAC standard water D, 1% (m), 20°C)
Melting point:	Approx. 0°C (1,013.3 hPa) Information applies to the solvent.
Boiling point:	Approx. 100°C (1,013.3 hPa) Information applies to the solvent.
Flash point:	No flashpoint – measurement made up to the boiling point.
Evaporation rate:	Not applicable
Flammability (solid/gas):	Not self-igniting
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.

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Ignition temperature:	555°C
Vapour pressure:	The product has not been tested.
Density:	Approx. 1.19 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: Bentazone sodium tech. 0.77 (pH value: 5)
	The values mentioned are those of the active ingredient.
Thermal decomposition:	160°C, 350 kJ/kg (onset temperature) 160°C, 190 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:	Based on its structural properties the product is not classified as oxidizing.
Viscosity, dynamic:	Approx. 9 mPa.s (20°C, 100 1/s) 5.3 mPa.s (40°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: 160°C, 350 kJ/kg (onset temperature)

Thermal decomposition: 160°C, 190 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):	>1,000 - <2,000 mg/kg
LC50 rat (by inhalation):	>4.8 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 / IrritationAssessment of irritating effects:

Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious Eye Damage / IrritationAssessment of irritating effects:

May cause slight irritation to the eyes.

Experimental/calculated data:

Serious eye damage/irritation rabbit: Irritant.

Respiratory or Skin sensitizationAssessment of sensitization:

Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Bentazone sodium tech.

Experimental/calculated data:

Guinea pig Maximisation Test: skin sensitizing.

Germ cell mutagenicityAssessment 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.

CarcinogenicityAssessment 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 toxicityAssessment 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 toxicityAssessment 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.

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:

No substance-specific organ toxicity was observed after repeated administration to animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration hazard

No aspiration hazard expected. The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity - Aquatic

Assessment of aquatic toxicity:

Harmful to aquatic life.

Toxicity to fish:

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

NOEC (28 d): >100 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:

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

NOEC (21 d) 250 mg/l, *Daphnia magna*

Aquatic plants:

EC50 (7 d) 19.2 mg/l, *Lemna gibba*

EC10 (7 d) 5.6 mg/l, *Lemna gibba*

Ecotoxicity - Terrestrial

Assessment 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 LD50: 1140 mg ai/l, *Colinus virginianus*, Bentazone

Toxicity to soil organisms:

LC50 (14d) >1000 mg ai/kg, *Eisenia fetida*, Bentazone

Toxicity to Pollinators:

LD50 (oral and contact): >200 µg ai/bee, *Apis mellifera*, Bentazone

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: bentazone sodium tech.

Assessment biodegradation and elimination (H2O):

Not readily biodegradable.

Bioaccumulative potentialAssessment bioaccumulation potential:

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

Information on: bentazone sodium tech.

Bioaccumulation potential:

Bioconcentration factor:

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

Mobility in soilAssessment transport between environmental compartments:

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

Information on: Bentazone sodium tech.

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 effectsOther 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.

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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 Bentazone)
Transport hazard class(es) / UN DG Class:	9, (EHSM)
Packing group:	III
Environmental hazards:	Yes, 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 Bentazone)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	marine pollutant
Marine pollutant:	Yes
Special precautions when transporting the substance:	None known

Air transport (IATA / ICAO):

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

Additional Information:

The following provisions may apply for product packages containing a net quantity of 5 L or less:

ADR, RID, ADN:	Special Provision 375;
IMDG:	2.10.2.7;
IATA:	A197;
TDG:	Special Provision 99(2);
49CFR:	§171.4 (c) (2)

15. Regulatory Information

HSNO Approval Number

HSR000426.

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:	Required – refer to label.
Certified Handler:	Not required
Tracking:	Not required
Record Keeping:	Required – refer to label.
Restricted to Workplace:	Not applicable
Controlled substance licence:	Not required

ACVM Registration

P002264

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

8 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
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TDG	Transportation of Dangerous Goods

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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.