

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 18.04.2023

Version: 2.0

Product: **Regalis Plus**

(ID no. 10955878/SDS\_CPA\_ZA/EN)

Date of print 04.03.2025

## 1. Identification

### Product identifier

## Regalis Plus

### Details of the supplier of the safety data sheet

Company:

BASF South Africa (Pty) Ltd  
852 Sixteenth Road  
Midrand  
P O Box 2801  
Halfway House 1685  
SOUTH AFRICA

Telephone: +27 11 203 2400

### Emergency telephone number

National emergency number:

+27 11 203 2420

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

Skin Sens. 1

For the classifications not written out in full in this section the full text can be found in section 16.

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**Label elements**Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H317 May cause an allergic skin reaction.

Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P280 Wear protective gloves.

P261 Avoid breathing dust or fume.

P272 Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

**Other hazards**According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

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.

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**3. Composition/Information on Ingredients****Substances**

Not applicable

**Mixtures**Chemical nature

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crop protection product, growth regulator, water dispersible granules

Hazardous ingredients (GHS)

According to UN GHS criteria

prohexadione calcium

Content (W/W): 9.94 %  
CAS Number: 127277-53-6Aquatic Acute 1  
Aquatic Chronic 2  
H411, H400

Ammonium sulphate

Content (W/W): < 50 %  
CAS Number: 7783-20-2  
EC-Number: 231-984-1Acute Tox. 5 (oral)  
Aquatic Acute 3  
H303, H402

Sodium hydrogensulphate

Content (W/W): < 30 %  
CAS Number: 7681-38-1  
EC-Number: 231-665-7  
INDEX-Number: 016-046-00-XAcute Tox. 5 (oral)  
Eye Dam./Irrit. 1  
H318, H303

Oxirane, methyl-, polymer with oxirane

Content (W/W): < 15 %  
CAS Number: 9003-11-6Acute Tox. 5 (oral)  
H303

Lignosulfonic acid, sodium salt

Content (W/W): < 15 %  
CAS Number: 8061-51-6

Silicon dioxide

Content (W/W): < 10 %  
CAS Number: 7631-86-9  
EC-Number: 231-545-4

For the classifications not written out in full in this section the full text can be found in section 16.

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## 4. First-Aid Measures

### Description of first aid measures

Remove contaminated clothing.

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water

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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 labeling 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.

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**5. Fire-Fighting Measures****Extinguishing media**

Suitable extinguishing media:  
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

**Special hazards arising from the substance or mixture**

Carbon monoxide, Carbon dioxide, hydrogen chloride, nitrogen oxides, sulfur oxides, silicon oxides, halogenated compounds

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

**Advice for fire-fighters**

Special protective equipment:

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

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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**

Avoid dust formation. 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: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

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Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

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## 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.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### 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. Protect against moisture.

Storage stability:

Storage duration: 36 Months

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.

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## 8. Exposure Controls/Personal Protection

### Control parameters

Components with occupational exposure limits

7631-86-9: Silicon dioxide

TWA value 5 mg/m<sup>3</sup>, Respirable fraction

TWA value 10 mg/m<sup>3</sup>

### Exposure controls

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

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Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact  
(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to  
EN ISO 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.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	solid
Colour:	light brown
Odour:	faint odour, sweetish
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 2 - 4 (1 %(m), approx. 20 °C)
Melting point:	The product has not been tested.
Boiling point:	The product has not been tested.
Flash point:	not applicable, the product is a solid
Evaporation rate:	not applicable
Flammability:	not highly flammable (Directive 92/69/EEC, A.10)
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.
Vapour pressure:	not applicable

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Relative vapour density (air):

not applicable

Solubility in water:

dispersible

Partitioning coefficient n-octanol/water (log Kow):

The statements are based on the  
properties of the individual  
components.

*Information on: prohexadione calcium*

Partitioning coefficient n-octanol/water (log Kow): -2.9  
(20 °C)

Self ignition:

Temperature: approx. 375 °C

(Method: Directive 92/69/EEC, A.16)

Thermal decomposition:

120 °C, 10 kJ/kg (DSC (OECD 113))  
(onset temperature)

175 °C, 30 kJ/kg (DSC (OECD 113))  
(onset temperature)

235 °C, 30 kJ/kg (DSC (OECD 113))  
(onset temperature)

315 °C, 30 kJ/kg (DSC (OECD 113))  
(onset temperature)

Not a substance liable to self-decomposition according to UN transport  
regulations, class 4.1.

Viscosity, dynamic:

not applicable, the product is a solid

Explosion hazard:

Based on the chemical structure  
there is no indication of explosive  
properties.

Fire promoting properties:

not fire-propagating

(Directive 92/69/EEC, A.17)

**Other information**

Self heating ability:

It is not a substance capable of  
spontaneous heating.

Bulk density:

approx. 831 - 895 kg/m<sup>3</sup>  
(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.

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**Incompatible materials**

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products:

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

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**11. Toxicological Information****Information on toxicological effects**Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral): &gt; 2,000 mg/kg (OECD Guideline 423)

No mortality was observed.

LC50 rat (by inhalation): &gt; 5.4 mg/l 4 h (OECD Guideline 403)

No mortality was observed.

LD50 rat (dermal): &gt; 2,000 mg/kg (OECD Guideline 402)

No mortality was observed.

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: sensitizing (OECD Guideline 429)

Germ cell mutagenicity

Assessment of mutagenicity:

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



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Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

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

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: Silicon dioxide**Assessment of repeated dose toxicity:**Repeated inhalative uptake of particles/dust reaching the alveoli may cause damage to the lungs.*  
-----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.

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## 12. Ecological Information

### Toxicity

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Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC10 (7 d) 5.3 mg/l (growth rate), *Lemna gibba* (OECD guideline 221, semistatic)EC50 (7 d) > 100 mg/l (growth rate), *Lemna gibba* (OECD guideline 221, semistatic)EC10 (72 h) 56.3 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)EC50 (72 h) > 100 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)**Persistence and degradability**Assessment biodegradation and elimination (H<sub>2</sub>O):

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

*Information on: prohexadione calcium**Assessment biodegradation and elimination (H<sub>2</sub>O):**According to OECD criteria the product is not readily biodegradable but inherently biodegradable.*  
-----**Bioaccumulative potential**

Assessment bioaccumulation potential:

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

*Information on: prohexadione calcium**Assessment bioaccumulation potential:**Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.*  
-----**Mobility in soil**

Assessment transport between environmental compartments:

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

*Information on: prohexadione calcium**Assessment transport between environmental compartments:**Adsorption in soil: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.*  
-----**Results of PBT and vPvB assessment**

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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

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

### Additional information

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## 13. Disposal Considerations

### Waste treatment methods

Must 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.

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## 14. Transport Information

### Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Inland waterway transport

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**ADN**

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel  
Not evaluated

**Sea transport****IMDG**

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

**Air transport****IATA/ICAO**

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

**Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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**15. Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture**

To avoid risks to man and the environment, comply with the instructions for use.

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## 16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Skin Sens.	Skin sensitization
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Acute Tox.	Acute toxicity
Eye Dam./Irrit.	Serious eye damage/eye irritation
H411	Toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.
H303	May be harmful if swallowed.
H402	Harmful to aquatic life.
H318	Causes serious eye damage.

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.

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