

Safety data sheet

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BASF Safety data sheet Date / Revised: 18.04.2023 Product: Regalis® Plus Plant Growth Regulator

Version: 5.0

(30641223/SDS_CPA_AU/EN) Date of print: 12.11.2024

1. Substance/preparation and manufacturer/supplier identification

Product name: Regalis® Plus Plant Growth Regulator

Use: crop protection product, growth regulator

Manufacturer/supplier: BASF Australia Limited (ABN 62 008 437 867) Level 23, 40 City Road, Southbank Victoria 3006, AUSTRALIA Telephone: +61 3 8855-6600

Emergency information: BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia] BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

Classification of the substance and mixture: Skin sensitization: Cat.1

Label elements and precautionary statement:

Pictogram:



Signal Word: Warning

Hazard Statement:

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H317	May cause an allergic skin reaction.			
Precautionary Statemen P101 P102 P103	t: If medical advice is needed, have product container or label at hand. Keep out of reach of children. 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 which do not result in classification: 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.

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

crop protection product, growth regulator, water dispersible granules

Hazardous ingredients

prohexadione calcium Content (W/W): 9.94 % CAS Number: 127277-53-6

Ammonium sulphate Content (W/W): < 50 % CAS Number: 7783-20-2

sodium hydrogen sulphate Content (W/W): < 30 % CAS Number: 7681-38-1 Aquatic Acute: Cat. 1 Aquatic Chronic: Cat. 2

Acute Tox.: Cat. 5 (oral) Aquatic Acute: Cat. 3

Acute Tox.: Cat. 5 (oral) Eye Dam./Irrit.: Cat. 1

Oxirane, methyl-, polymer with oxirane

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

Lignosulfonic acid, sodium salt Content (W/W): < 15 % CAS Number: 8061-51-6

Silicon dioxide Content (W/W): < 10 % CAS Number: 7631-86-9

4. First-Aid Measures

General advice: 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.

Note to physician:

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

5. Fire-Fighting Measures

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

Specific hazards: 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.

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

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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.

6. Accidental Release Measures

<u>Personal precautions:</u> 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 for cleaning up or taking up:

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

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.

7. Handling and Storage

<u>Handling</u>

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.

Storage

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.

8. Exposure controls and personal protection

Components with occupational exposure limits

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Silicon dioxide, 7631-86-9;

TWA value 2 mg/m3 (OEL (AU)), Respirable fraction TWA value 2 mg/m3 (AU NOEL), Respirable dust amorphous silica TWA value 2 mg/m3 (AU NOEL), Respirable dust TWA value 10 mg/m3 (ACGIHTLV), Inhalable particles TWA value 3 mg/m3 (ACGIHTLV), Respirable particles

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:

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.

9. Physical and Chemical Properties

Form: Colour: Odour: Odour threshold:	solid light brown faint odour, sweetish Not determined due to potential health hazard by inhalation.	
pH value:	approx. 2 - 4 (1 %(m), approx. 20 °C)	
Melting point:		
Boiling point:	The product has not been tested.	
Bonnig point.	The product has not been tested.	
Flash point:	not applicable, the product is a solid	

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Evaporation rate:	not applicable	
Flammability (solid/gas): Lower explosion limit:	not highly flammable	(Directive 92/69/EEC, A.10)
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.	
	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.	
Thermal decomposition:	120 °C ,10 kJ/kg (onset temperature)	(DSC (OECD 113))
	175 °C ,30 kJ/kg (onset temperature)	(DSC (OECD 113))
	235 °C ,30 kJ/kg (onset temperature)	(DSC (OECD 113))
	315 °C ,30 kJ/kg (onset temperature)	(DSC (OECD 113))
Self ignition:	Not a substance liable to self- decomposition according to UN transport regulations, class 4.1. Temperature: approx. 375 °C	(Method: Directive 92/69/EEC,
Self heating ability:	It is not a substance capable of spontaneous heating.	A.16)
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties		(Directive 92/69/EEC, A.17)
Vapour pressure:	not applicable	
Bulk density:	approx. 831 - 895 kg/m3 (20 °C)	
Relative vapour density		
Solubility in water:	dispersible	

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Partitioning coefficient n-octanol/water (log Pow): The statements are based on the properties of the individual components. Information on: prohexadione calcium Partitioning coefficient n-octanol/water (log Pow): -2.9 (20 °C)

Viscosity, dynamic:

not applicable, the product is a solid

10. Stability and Reactivity

Conditions to avoid: See SDS section 7 - Handling and storage.

Thermal decomposition:	120 °C, 10 kJ/kg (DSC (OECD 113)) (onset temperature)
Thermal decomposition:	175 °C, 30 kJ/kg (DSC (OECD 113)) (onset temperature)
Thermal decomposition:	235 °C, 30 kJ/kg (DSC (OECD 113)) (onset temperature)
Thermal decomposition:	315 °C, 30 kJ/kg (DSC (OECD 113)) (onset temperature)
Thermal decomposition:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

Substances to avoid: strong acids, strong bases, strong oxidizing agents

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

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

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

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

11. Toxicological Information

Routes of exposure Acute oral toxicity

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Experimental/calculated data: LD50rat (oral): > 2,000 mg/kg (OECD Guideline 423) No mortality was observed.

Acute inhalation toxicity

LC50 rat (by inhalation): > 5.4 mg/l 4 h (OECD Guideline 403) No mortality was observed.

Acute dermal toxicity

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402) No mortality was observed.

Assessment of acute toxicity

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

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

Irritation

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data: Skin corrosion/irritation rabbit: (OECD Guideline 404)

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

Respiratory/Skin sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Experimental/calculated data: Mouse Local Lymph Node Assay (LLNA) mouse: (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.

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

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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)

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.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

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:

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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)

Mobility

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: prohexadione calcium Assessment transport between environmental compartments: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

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: prohexadione calcium Assessment biodegradation and elimination (H2O): According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Bioaccumulation 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.

Additional information

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

13. Disposal Considerations

Must 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

Domestic transport:

Domestic transport:	
UN number or ID number UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Special precautions for user	Not classified as a dangerous good under transport regulations Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable None known
Sea transport IMDG	
UN number or ID number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards: Special precautions for user	Not classified as a dangerous good under transport regulations Not applicable Not applicable Not applicable Not applicable Not applicable Marine pollutant: no None known
Air transport IATA/ICAO	
UN number or ID number Proper shipping name: Transport bazard class(es):	Not classified as a dangerous good under transport regulations Not applicable Not applicable Not applicable

Transport hazard class(es): Not applicable Packing group: Environmental hazards: Special precautions for user

Not applicable Not applicable None known

15. Regulatory Information

Other regulations

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

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Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5

APVMA Approval Number : 69629

16. Other Information

Vertical lines in the left hand margin indicate an amendment from the previous version.

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.