

Safety Data Sheet

REMAX - Reg. No: L 10609 (Act No 36 of 1947)

Date of issue: 27/03/2019

1) PRODUCT AND COMPANY IDENTIFICATION					
Product name:		REMAX			
Other means of identification:		Prohex WG			
Recommended use:		Plant Growth Regulator			
Restrictions on use:		Agriculture			
UN No:		NA			
Distributed by:		MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za			
Emergency Number:		POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 TYGERBERG:021 931 6129 RED CROSS 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946			
Chemical Name:		<u>Prohexadione-Calcium (IUPAC):</u> calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate			
2) Hazards Identification:					
Product Classification:		R52 Full text of phrases; see section 15			
Label Elements:		-			
3) Composition / Information on ingredients:					
Mixture:					
Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Prohexadione-Calcium	100 g/kg	127277-53-6	-	-	-
Sodium Dodecyl sulphate	40 g/kg	151-21-3	205-788-1	H228: Flam Sol. 2 H302: Acute Tox 4 H315: Skin Irrit. 2 H318: Eye Dam. 1 H332: Acute Tox. 4 H335: STOT SE 3 (Inhalation) H412: Aquatic Chronic 3	-
Full text of R- and S-phrases: see section 15.					
4) First Aid Measures:					
Inhalation:		Remove patient to fresh air. Loosen clothing around neck. Lie down and keep calm.			
Skin contact:		Wash skin gently but thoroughly with plenty of water and non-abrasive soap for 15 to 20 minutes.			
Eye contact:		Immediately flush eyes with a stream of gently flowing water for 15 minutes, holding eyelids open. Remove contact lenses, if present, after the first 1-2 minutes.			
Ingestion:		Rinse mouth and then drink plenty of water.			

Advice to physician:	No specific antidote known. For local contamination, treatment should be symptomatic after decontamination.
5) Fire-Fighting Measures:	
Flash point:	NA
Extinguishing Media:	Dry chemical powder, dry chemical, foam or standard foam. A fine water spray can be used for larger fires or for cooling unaffected stock.
Unsuitable Extinguishing Media:	Carbon dioxide, high volume water jet.
Special hazards arising from the substance or mixture:	Carbon monoxide, carbon dioxide, nitrogen oxides.
Fire Fighting:	Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways. Contain firefighting water for later disposal. Avoid the accumulation of polluted run-off from site.
Protective clothing:	Full protective clothing and self-contained breathing apparatus.
6) Accidental Release Measures:	
Personal precautions:	Avoid any skin and eye contact. Avoid contact with clothing. Use personal protective clothing. Avoid dust formation.
Environmental precautions:	Do not discharge into soil, subsoil, drains, surface waters or groundwater.
Occupational spill:	Wear protective clothing and avoid breathing mist/vapour. Clear area of unprotected personnel. Ventilate area. Sweep and shovel up any spilled product. Avoid raising dust. Collect all waste in suitable containers, which can be labelled and sealed. Wash contaminated floors and objects thoroughly with clean water and detergents, observing environmental regulations. Dispose of absorbed material in accordance with regulations.
7) Handling & Storage:	
Handling:	Avoid skin and eye contact and inhalation of spray mist, fog or vapours. Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. Keep working clothes separately. Keep away from sources of ignition – no smoking. Keep container tightly sealed, protect the contents from heat, sources of ignition, light and from air. Handle and open the container with care and do not open until ready to use. Once the container is opened the contents should be used as soon as possible. Avoid dust formation. Dust can form an explosive mixture with air. Fire extinguishers should be kept handy. Follow all label warnings even after the container is emptied. Avoid all direct contact with the product. Wear suitable personal protection. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.
Storage:	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from animals, children or uninformed persons. Do not store for prolonged periods in direct sunlight. Protect from temperatures above 40°C. Store away from heat, moisture, sources of ignition or open flames.
8) Exposure Control / Personal Protection:	
It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on	

<p>how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Respiratory protection:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Emergency eye wash:</p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Wear long-sleeved shirt and long pants, chemical-resistant footwear. Wash contaminated clothing and clean protective equipment before re-use.</p> <p>Not required</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent prolonged, direct contact with this substance. Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Suitable material: Nitrile rubber (0.4 mm), butyl rubber (0.7 mm), chloroprene rubber (0.5 mm).</p> <p>The use of safety goggles with side shields is recommended.</p> <p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>
9) Physical & Chemical Properties:	
Form:	Granules
Colour:	Tan
Odour:	Characteristic odour
Solubility:	Disperses in water
pH:	5-8
Odour threshold:	Not available
Melting point / Freezing point	Not applicable
Initial boiling point and boiling range	Not available
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas)	Not highly flammable
Upper/ lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	1.00
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Viscosity:	Not applicable
10) Stability & Reactivity:	
<p>Stability:</p> <p>Conditions to avoid:</p> <p>Incompatible materials:</p> <p>Hazardous decomposition product(s):</p>	<p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.</p> <p>Prolonged periods in direct sunlight. Temperatures above 40°C. Heat, moisture, sources of ignition or open flames.</p> <p>Strong bases, strong acids and strong oxidizing agents.</p> <p>If involved in a fire the product may generate poisonous and corrosive fumes such as carbon monoxide, carbon dioxide, and nitrogen oxides. No hazardous decomposition products if stored and handled as prescribed.</p>
11) Toxicological Information:	
<p>Oral : >5 000 mg/kg (Rat) Dermal : >2 000 mg/kg (Rat) Inhalation : >4.21 mg/kg (Rat, 4h) (Based on the active ingredient)</p> <p>Skin irritation: Not an irritant Eye irritation : Not an irritant Sensitization : Not a sensitizer</p>	
12) Ecological Information (Based on active ingredient):	
<p>Prohexadione-Calcium: Birds : LD₅₀ for bobwhite quail and mallard ducks >2000 mg/kg b.w.</p>	

Fish : LC₅₀ (96 h) for carp >110 ppm, rainbow trout and bluegill sunfish >100 mg/L.
Daphnia : EC₅₀ (48 h) for *D. magna* >100 ppm.
Algae : E_bC₅₀ (72 h) for *Selenastrum capricornutum* >100 mg/L.
Worms : LC₅₀ (14 d) for *Eisenia foetida* >1000 mg/kg dry soil.
Bees : LD₅₀ >100 µg/bee (oral and contact)

Persistence: DT₅₀ <1-4 d (20°C)

13) Disposal Considerations:

Waste Disposal: In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved chemicals waste disposal facility.

Packaging Disposal:

Refer to the product label for instructions.

Empty packaging as far as possible and dispose of in the same manner as the product/substance.

14) Transportation Information:

UN NUMBER: NA

Not classified as a dangerous good under transport regulations.

15) Regulatory Information:

Active ingredient: Prohexadione-Calcium

R-phrase(s):

R52: Harmful to aquatic organisms.

S-phrase(s):

S1/2: Keep locked up and out of reach of children.

S13: Keep away from food, drink and animal feeding stuffs.

S20/21: When using, do not eat, drink or smoke.

Hazard Statements:

H228: Flammable solid.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long-lasting effects.

16) Other Information

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS. The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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