

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

# DIMMER<sup>®</sup>



SUNBURN PROTECTANT

*grochem*<sup>®</sup>



Natural sunburn protector that forms a barrier to minimise the impact of sunburn and heat stress damage.



**Active ingredient:** Contains 90–100% *Spirulina platensis* in the form of a water soluble micro granule.

3kg

NET CONTENTS

Manufactured by:

  
**Globachem**  
Your Crop Counts

Batch  
number:

Date of  
Manufacture:



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# DIMMER®

# grochem®

## REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.

### THIS SUBSTANCE IS NOT A HAZARDOUS SUBSTANCE

#### HANDLING PRECAUTIONS

Read label before use. Avoid breathing dust, spray mist or vapours. Avoid unintended release into the environment. Collect spillages.

#### PCBU RESPONSIBILITIES

A PCBU with management or control of work using this substance must ensure that every worker who uses, handles, manufactures, or stores this substance (including hazardous waste) is, before the worker is allowed to carry out or supervise work involving those substances, provided with adequate information, training and instruction. This includes the use of personal protective equipment to be used to minimise risks to the health and safety of workers when carrying out work using this substance.

#### EQUIPMENT

A PCBU with management or control of work using this substance must ensure that equipment used to handle this substance retains the substance, without leakage, at all of the temperatures and pressures at which the equipment is to be used; and dispenses or applies the substance, without leakage, at a rate and in a manner that the equipment is designed for. The PCBU must ensure that the equipment is accompanied by documentation that is readily available and readily understandable about the use and maintenance of the equipment.

#### STORAGE

Store in the original, tightly closed package in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.

#### SHELF LIFE

When stored appropriately this product should show no significant degradation for five years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

#### SPILLAGE

Prevent material from entering waterways. Absorb spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place in waste containers. Wash area with water and alkaline detergent. Dispose of the waste safely in an approved landfill.

#### DISPOSAL

##### Package Disposal

Ensure packaging is completely empty and crush and bury in a suitable landfill. Avoid contamination of any water supply with product or empty package.

##### Product Disposal

Dispose of this product only by using according to the label or through the Agrecovery® Chemical Recovery service or other approved facility.

Do not burn product or packaging.

#### SAFETY DATA SHEET

A safety data sheet for this product is available at [www.grochem.com](http://www.grochem.com).

#### FIRST AID

For advice or if you feel unwell or are exposed or concerned, contact a medical centre/doctor. If medical advice is needed, have product container or label at hand.

#### CONDITIONS OF SALE

Grochem®, a brand of ADAMA New Zealand Limited (Grochem) will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of Grochem is limited to the replacement of the goods or (at the option of Grochem) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Grochem within thirty days of delivery.

#### Manufactured by:

Globachem NV  
Brustem Industriepark  
Lichtenberglaan 2019  
3800 Sint-Truiden  
Belgium

#### Distributed by:

Grochem® a brand of ADAMA  
New Zealand Limited  
Level 1, 93 Bolt Road  
Tahunanui, Nelson 7011  
PO Box 1799, Nelson 7040  
New Zealand

**Freephone: 0800 447 624**

**Email: [grochem@grochem.com](mailto:grochem@grochem.com)**  
**[www.grochem.com](http://www.grochem.com)**

Exempt from registration under the ACVM Act 1997.

Not a Hazardous Substance under the HSNO Act 1996.

Dimmer® is a registered trademark of Globachem®.

**FREE**  
RECYCLING

**AGRECOVERY**  
[www.agrecovery.co.nz](http://www.agrecovery.co.nz)

#### EMERGENCY RESPONSE

**0800 734 607** (All hours)

Ring from anywhere in New Zealand

In a Transport Emergency  
**Phone 111** Police or Fire



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Product  
Information

Directions  
For Use

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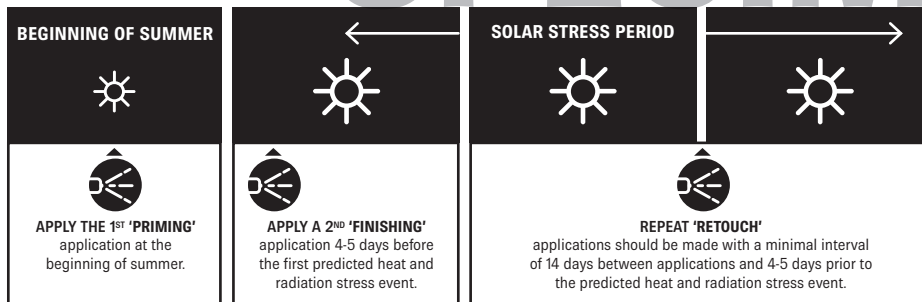
## Product Information

When applied, Dimmer forms an invisible film, filtering ultraviolet and infrared radiation and protecting against sunburn and heat stress. Thorough, uniform and consistent coverage is essential throughout the stress period to ensure optimum protection. Dimmer may be applied up to the day of harvest. It has a physical mode of action, so no residue limit or preharvest interval is to be considered.

## Directions For Use

Apply Dimmer® at a dose rate of 1.5 kg/ha, using at least 500 L of water per hectare. The initial application should be made at the beginning of summer to prime the crop for abiotic stress relief. Following applications are required a few days prior to predicted solar stress events. In case of a prolonged heat period, reapplication should be made at 14-day intervals or after more than 20 mm of rain.

CROP	TARGET	RATE	COMMENTS
Apples	Sunburn	1.5 kg/ha When spray volume exceeds 1,000 L/ha apply 150 g/100 L water	Water Volume: at least 500 L/ha; use sufficient volume to obtain thorough coverage. Do not apply to the point of run-off. Apply the 1st ' <b>PRIMING</b> ' application at the beginning of summer. Apply a 2nd ' <b>FINISHING</b> ' application 4-5 days before the first predicted heat and radiation stress event. Repeat ' <b>RETOUCH</b> ' applications should be made with a minimal interval of 14 days between applications and 4-5 days prior to the predicted heat and radiation stress event.



**Application conditions:** Applications to wet foliage can cause inadequate film formation and excessive run off. Under very hot and dry conditions, increase volume of water and droplet size to improve deposition.

**Rainfastness:** Rainfall will affect film quality. Reapply to re-establish coverage after more than 20 mm of rain as soon as the foliage is dry.

**Compatibility:** Dimmer is compatible with most commonly used approved products. As testing of all possible combinations of tank mixtures is not possible, test a small quantity of the intended mixture in a jar or bucket at the dilution rates recommended, if in doubt.

**Mixing Instructions:** Fill spray tank to 50% of capacity. Turn on the agitator and add the required amount of Dimmer, followed by the remainder of the water. Continue agitation until all of the mixture is sprayed from the tank. At the end of the application, spray until empty and flush the system and nozzles with fresh water. Properly dispose of the rinse water.

**Spray methods:** Air blast sprayers provide the best coverage. Do not apply in windy or gusty conditions. Calibrate spray equipment to deliver the required volume.

**Pre-harvest interval:** Nil

**Post-harvest removal:** Dimmer® does not leave any detectable residue on harvested crops and does not require any steps for removal.

## Storage:

Keep the product in its original container in a dry place, away from moisture.

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**grochem®**