

# OPTY

## SULF



**Sulphur (S) 572 g/kg (800g/ℓ)**

SG (@20°C) = 1.40 ± 0.02

**Opty Sulf is a liquid suspension concentrate fertilizer, containing elemental sulfur suitable for soil application or seed treatment to maintain or correct sulfur levels in soils and plants. Opty Sulf can also be applied as a fungicide for the control of Powdery Mildew and other fungal diseases and pests as indicated.**

**TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.**



Manufactured by: **INTROLAB (PTY) LTD** (Reg. No. 2005/039779/07)

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**Introlab**  
outperform the norm

Distributed by:

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See enclosed for full details. ➔

See container side for both Batch No. and Manufacture Date. Product expires 2 years after date of manufacture.



**WARNING**



## PRODUCT DESCRIPTION

- **Opty Sulf** is a liquid suspension concentrated fertilizer for use as a soil treatment to maintain or correct sulfur levels as well as seed treatment on the crops mentioned.
- For optimum results **Opty Sulf** should be used in a balanced plant nutrition programme.
- Consult your chemical distributor, consultant or registration holder should crop specific programmes be required, or if any additional information guidance is required concerning the use of this product.
- **Opty Sulf** can also be applied as a fungicide for the control of Powdery Mildew and other fungal diseases and pests

## COMPATIBILITY

- It is advisable to do a miscibility test prior to mixing **Opty Sulf** with other agricultural products.

## MIXING INSTRUCTIONS

- Shake the container thoroughly before use.
- Follow the standard tank mixing procedure if this product is applied in combination with other agricultural products.
- Ensure good agitation throughout application.

## STORAGE

- Store in the original, well-sealed container away from direct sunlight in a cool dry environment.
- Keep away from children, uninformed people, animals and foodstuffs.

## APPLICATION INSTRUCTIONS

- **Opty Sulf** should preferably be applied in the early morning or late afternoon.
- Do not apply to plants that are undergoing moisture or heat stress.
- Ensure good even coverage of the crop.
- Use the lower dosage per 100 ℓ at higher water volumes and higher dosage per 100 ℓ at lower spray volumes.

## WARNINGS

### Withholding periods:

Minimum number of days between last application and harvest: Wine and table grapes...6 weeks.

### GENERAL:

- Harmful if swallowed or inhaled
- Irritating to eyes, skin and respiratory tract
- Keep out of reach of children, uninformed persons and animals
- Store in a cool, dry place away from food and feed
- In case of poisoning, call a doctor and show him/her this label
- Re-entry interval – do not enter treated area until spray deposit has dried, unless wearing protective clothing

## WARNINGS

### PRECAUTIONS:

- Do not eat, drink or smoke whilst handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Wear rubber gloves and face shield when handling the concentrate.
- While spraying, avoid contact with the spray as much as you can.
- Avoid spray drift onto other crops, grazing, rivers or dams.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Destroy the empty container by means of perforation and flattening and never re-use it for any other purpose.
- Change and wash your clothes. Wash yourself.

## FIRST AID TREATMENT

**Ingestion:** If person is fully conscious, give large amounts of milk or water and call a doctor.

**Skin contact:** Wash thoroughly with soap and water.

**Eye contact:** Immediately flush eyes with plenty of clean water for at least 15 minutes. Get medical attention.

**Inhalation:** Remove person to fresh air. Give oxygen if breathing is difficult.

### Resistance warning:

For resistance management, **Opty Sulf** is a FRAC group M2. Any fungus population may contain individuals naturally resistant to **Opty Sulf** and other group M2 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **Opty Sulf** or any other group M2 fungicides.

### To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group. Alternate or tank mix with registered products from different fungicide groups.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

*For specific information on resistance management contact the registration holder of this product.*

**Environmental conditions:** Do not apply **Opty Sulf** under adverse weather conditions causing stress to the crop, such as high or low temperatures, high or low humidity, rain or frost. Do not apply when the fruit is still wet because of rain or dew.

## Directions for use: (Use only as directed)

### SOIL APPLICATION

ANNUAL CROPS	RATE PER HECTARE	REMARKS
Potatoes	60 – 120ℓ	Apply in a minimum of 300 l/ha as a direct spray during the planting process in the furrow. Use only on certified good quality seed tubers. Ensure good coverage of the plant furrow.
Sugarcane	60 – 120ℓ	Apply in a minimum of 300 l/ha as a direct spray during the planting process in the furrow. Ensure good coverage of the plant furrow. Can be applied onto planting material.
Wheat	50 – 100ℓ	Apply as a pre-plant soil treatment. Can be applied through the irrigation system or with the tractor sprayer. Ensure good agitation.
Maize	10 – 20ℓ	Apply through applicator directly into plant furrow in 100 – 300ℓ of water. Can be applied onto seed.
Canola	50 – 100ℓ	Apply as a pre-plant soil treatment. Can be applied through the irrigation system or with the tractor sprayer. Ensure good agitation.
Onions	50 – 100ℓ	Apply as a pre-plant soil treatment. Can be applied through the irrigation system or with the tractor sprayer. Ensure good agitation.
Carrots	50 – 100ℓ	Apply as a pre-plant soil treatment. Can be applied through the irrigation system or with the tractor sprayer. Ensure good agitation.
Soyabeans	10 – 20ℓ	Apply through applicator directly into plant furrow in 100 – 300 ℓ of water. Can be applied onto seed.

## Directions for use: (Use only as directed)

ANNUAL CROPS	RATE PER HECTARE	REMARKS
Groundnuts	10 – 20ℓ	Apply through applicator directly into plant furrow in 100 – 300 ℓ of water. Can be applied onto seed.
Sunflower	10 – 20ℓ	Apply through applicator directly into plant furrow in 100 – 300 ℓ of water. Can be applied onto seed.
Beans	10 – 20ℓ	Apply through applicator directly into plant furrow in 100 – 300ℓ of water. Can be applied onto seed..
PERMANENT CROPS	RATE PER HECTARE	REMARKS
Wine & Table Grapes	10 – 40 ℓ	Can be applied through irrigation system, ensure good agitation during application. See notes at end of table.
Citrus	60 – 80ℓ	Can be applied through irrigation system, ensure good agitation during application. See notes at end of table.
Macadamia & Pecan Nuts	60 – 100ℓ	Can be applied through irrigation system, ensure good agitation during application. See notes at end of table.
Avocados	60 – 80ℓ	Can be applied through irrigation system, ensure good agitation during application. See notes at end of table.
Mangoes	60 – 100ℓ	Can be applied through irrigation system, ensure good agitation during application. See notes at end of table.

### NOTES

- With micro & drip irrigation, the dosage rate per hectare should be calculated according to effective surface wetting.
- Because the soil sulfur levels decrease, it is important to adapt the dosage rate.
- Rate of application is based on the sulfur status in the soil as well as the pH of the soil. Consult with your agricultural specialist.
- Soil amendment must be done every season with every crop.
- Typical application rate is 10-100 litres per hectare.

## Directions for use: (Use only as directed)

### SEED TREATMENT

CROP	RATE PER 1000 KG OF SEED	REMARKS
<b>Wheat</b>	5 – 10ℓ	Apply directly onto seed in a seed applicator.
<b>Maize</b>	5 – 10ℓ	Apply directly onto seed in a seed applicator or as a in furrow application.
<b>Soybeans</b>	5 – 10ℓ	Apply directly onto seed in a seed applicator. Can be mixed with the inoculant.
<b>Groundnuts</b>	5 – 10ℓ	Apply directly onto seed in a seed applicator or as a in furrow application. Can be mixed with the inoculant.
<b>Beans</b>	5 – 10ℓ	Apply directly onto seed in a seed applicator. Can be mixed with the inoculant.
<b>Sunflower</b>	5 – 10ℓ	Apply directly onto seed in a seed applicator or as a in furrow application.
<b>Onions</b>	5 – 10ℓ	Apply directly onto seed in a seed applicator.

### FOLIAR APPLICATION

CROP	DISEASE	Dosage per 100ℓ water	REMARKS
<b>Apples</b>	Bud Mite Powdery Mildew	3 – 4.5ℓ 3 – 4.5ℓ	High volume full cover spray at closed bud stage. Pre-blossom: 300 – 400 mL/100 L water Early post-blossom: 250 mL/100 L Late post-blossom: 200 mL/100L water Do not apply to sulfur sensitive cultivars.
<b>Avocados</b>	Thrips	3 – 4.5ℓ	Apply as soon as pest is noticed.
<b>Beans</b>	Thrips & Red Spider Mite	2 - 3ℓ	Full cover spray when pest is noticed. Repeat at 10-14 day intervals if necessary.
<b>Citrus</b>	Flat Mite Grey Mite Silver Mite Rust Mite Thrips	3 – 4.5ℓ	Full cover spray. Allow 4 weeks safety period between sulfur and mineral oil treatments. Apply when pest is noticed on fruit. Apply soon after petal drop. Repeat 2 months later. Apply in spring. Apply when first signs of blemishes are noticed on fruit during December – May. Spray whole orchard. Apply when pest is first noticed. Repeat 10 days later if necessary.

# Directions for use: (Use only as directed)

## FOLIAR APPLICATION

CROP	DISEASE	Dosage per 100ℓ water	REMARKS
Cucurbits	Powdery Mildew	2 - 3ℓ	Do not use on muskmelon and cucumbers. Start application at first signs of disease and repeat every 7 -14 days. Depending on foliage, apply up to 1500 L spray mixture/ha. Ensure total coverage of all parts of the plant.
Grape Vine	Powdery Mildew	2 - 3ℓ	<b>Winter rainfall region:</b> Start application when shoots are 25cm long. Repeat every 3 weeks if necessary. <b>Summer rain fall region:</b> Start application mid-summer, particularly during drought, or when first symptoms are noticed. <b>Warning:</b> Heavy applications may cause scorching, especially on warm days (temperatures above 28°C). Do not apply within 6 weeks before harvest of table grapes since it may result in visual residue deposits in table grapes and in the case of wine grapes it may adversely influence fermentation. Apply when shoots are approximately 10cm long and repeat when vines are in the flowering stage and again about the first week in December.
Mangoes	Powdery Mildew	3 – 4.5ℓ	Apply as a full cover spray till drip off. Start application at the first signs of infection. Apply every 14 days during the flowering period from July – September.
Ornamentals & Flowers	Thrips Red Spider Mite Powdery Mildew	2ℓ Max	Full cover spray. Sulfur may injure some ornamentals. Do not apply on warm days. In case of roses, apply weekly.
Peaches, Plums & Apricots	Rust	1.5 – 3 ℓ	<b>Winter rainfall region:</b> Start application early in November. <b>Summer rainfall region:</b> Apply from middle February onwards or as soon as first symptoms are noticed.
Peaches	Powdery Mildew	1.5 – 3 ℓ	Apply at first signs of infection. Repeat every 10-14 days if weather favours development of the disease. Dosage depends on severity of disease.
Peas	Powdery Mildew	2 – 3 ℓ	Apply when first symptoms of disease appear and repeat every 7 -10 days. Apply up to 1000 L spray mixture/ha and ensure good coverage.
Tomatoes	Rust Mite	2 – 4 ℓ	Full cover spray. Repeat every 2 – 4 week intervals.



## Warranty:

Although this product has been extensively tested under large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic conditions as well as method, time and accuracy of application

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