

**orion** AGRISCIENCE

**DANGER**

KEEP OUT OF REACH OF CHILDREN



# Saprol<sup>®</sup>

## FUNGICIDE

A systemic eradicator and protective fungicide of the DMI group, active against various fungal diseases on cucurbits, fruit and ornamentals

**Active Ingredient:**

190 g/L triforine in the form of an emulsifiable concentrate. Also contains 294 g/L dimethyl formamide



9 421004 53094 1

**1Litre**

## PLEASE READ THE LABEL COMPLETELY BEFORE USE

**HAZARD CLASSIFICATIONS**

**Flammable liquid (Cat.4), Skin Irritation (Cat.2), Eye Irritation (Cat.2), Reproductive toxicity (Cat.1), Specific Target Organ Toxicity Repeat Exposure (Cat.1), Hazardous to terrestrial vertebrates. DANGER TOXIC, FLAMMABLE**

Combustible liquid. Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. May damage fertility to the unborn child. Harmful to terrestrial vertebrates.

**HANDLING REQUIREMENTS**

This product must only be handled, mixed and applied by a suitably qualified person as defined under the HPC notice 2017 Part 4C.

**PERSONAL PROTECTION**

Avoid contact with eyes and skin. Avoid inhalation of spray mist. When mixing or applying, wear overalls, boots, gloves, and eye protection. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

**STORAGE**

Keep out of reach of children. Store in the original container in a secure dry, cool, well-ventilated area away from foodstuffs, fertilisers and seeds. Store away from direct sunlight.

Stores containing 10000 L of Saprol are subject to secondary containment and emergency response plan.

**DISPOSAL**

Dispose of this product only by using in accordance with this label. Triple rinse container and add rinsate to the spray tank. Dispose of container to a suitable landfill. Do not burn. Do not use container or use for any other purpose.

**ENVIRONMENTAL**

Use this product carefully. Do not contaminate aquatic environments with product, spray drift or empty container. Do not allow spray drift outside the target area to occur.

**FIRST AID**

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

If swallowed do not induce vomiting. If splashed in eyes, wash out immediately with running water for several minutes. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Call the National Poisons Centre **0800 POISON (0800 764 766)** (24 hrs) or a doctor immediately for advice.

**EMERGENCY RESPONSE**

In a transport emergency call **111, Police or Fire Brigade**. For specialist advice in an emergency only, call **0800 CHEMICAL (0800 243 6225)** (24 hrs).

**SPILLAGE**

Exclude non-essential people from the area. Wear protective clothing and prevent material from entering waterways. Absorb spill with inert material such as soil, sand, etc., and place in a waste container. Wash area with water and detergent and absorb with further inert material. Dispose of safely to a suitable landfill.

Batch No:

Date of manufacture:

SAPROL

**SAFETY DATA SHEET**

Additional information is provided in the safety data sheet. Freephone **0800 ORIONAS (0800 674 6627)** or visit [www.orionagriscience.co.nz](http://www.orionagriscience.co.nz).

**MIXING**

While agitating partially filled spray tank, slowly add the required amount of SAPROL while adding the remaining water. Spray mixture should be kept agitated before and during spraying, and before spraying after stoppage. Maintain agitation whilst spraying. Spray within 8 hours after preparation.

**COMPATIBILITY**

SAPROL can be mixed with most commonly used pesticides except tin-based compounds, streptomycin, and alkaline materials such as Bordeaux mixture and lime sulphur. Do **NOT** use in mixture with propargite on nectarines. SAPROL is compatible with Kocide, and SunSpray, oil.

**APPLICATION**

May be applied through all conventional orchard and ground spraying equipment. **MOTORIZED MIST BLOWER KNAPSACK:** Apply 2-3 litres/ha. As a guide use 30 ml/10 litres on middle restrictor and throttle settings. Lightly move all foliage in the air stream.

**RAINFALL**

Avoid application if rain is immediately imminent - spray must have time to dry on the plant. If heavy rain follows soon after treatment use the shorter spray interval.

**WITHHOLDING PERIODS:**

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.**

Stonefruit	1 day
Tomatoes and cucurbits	3 days
Apples	35 days
All other crops	14 days

**RESISTANCE MANAGEMENT**

**GROUP 3 FUNGICIDE**

SAPROL is systemic fungicide that is absorbed by the leaves and roots. SAPROL is a member of the DMI group of fungicides and contains triforine, a piperazine derivative. Resistance to this fungicide could develop from excessive use. To minimise this risk, use strictly in accordance with label instructions. Consult <http://resistance.nzps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the crops and/or diseases listed on this label.

Registered pursuant to the ACVM Act 1997, No. P2596

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to the HSN0 Act 1996, No. HS000148

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

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[www.orionagriscience.co.nz](http://www.orionagriscience.co.nz)

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AGRISCIENCE

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DIRECTIONS FOR USE

All rates are for high volume spraying to run off. For concentrate spraying adjust rates accordingly.

It is an offence to use this product on animals.

CROP	DISEASE	RATE	CRITICAL COMMENTS
Apples	Powdery Mildew Black Spot	100ml per 100L (at least 2.5L/ha)	Apply from green tip to full bloom at 7-10 day intervals or as required, ensuring good coverage. Continue at 10-14 day intervals as required from full bloom. Use the shorter interval where disease has been or is severe. Use after late pink may cause russet. Some suppression of European red mite may be obtained. May be applied using semi-concentrate equipment. Do not apply within 35 days of harvest. <b>Resistance Management:</b> Always mix with a blackspot protectant fungicide. Do not use more than 4 applications during the season. In seasons of extreme disease pressure a maximum of 6 applications in mixtures could be used.
Cucurbits	Powdery mildew	150ml per 100L (at least 1.5L/ha)	Apply at the first sign of infection and repeat 10 days later. Do not apply within 3 days of harvest. <b>Resistance Management:</b> Apply a maximum of two SaproI sprays per crop per year, preferably in mixture with non-DMI fungicide. Use non-DMI fungicides at other times. Ensure full coverage of foliage.
Currants (Red and black)	Mycosphaerella leaf spot	200mL per 100L (2L/ha for first year bushes and 4L ha for cropping bushes)	Apply at 10-14 day intervals from early green tip to 10% flowering. Immediately post harvest resume application at 200mL per 100L at 14-21 day intervals and continue at 14-21 day intervals until growth stops. Good coverage is important.
Grapes	Powdery Mildew	100mL per 100L (at least 2L/ha)	Commence application bud burst and repeat every 2-3 weeks. CAUTION: Continued use after flowering may cause russetting of berries with some varieties. Do not apply within 14 days of harvest. <b>Resistance Management:</b> Use a maximum of four SaproI applications per season, preferably mixed with a protectant fungicide (eg. Sulphur or Delan®). Do not apply before flowering. No more than two SaproI sprays should be applied alone per season.

SEE INSIDE FOR TABLE →

## PLEASE READ THE LABEL COMPLETELY BEFORE USE

CROP	DISEASE	RATE	CRITICAL COMMENTS
Ornamentals (1) Roses	Black spot Powdery Mildew Rust	100mL per 100L	Apply as a high volume spray when infection is expected and repeat at 10-14 day intervals. Caution should be exercised over mixing Saprol with other products and it is recommended that a few plants be sprayed with any proposed mixture to ensure their tolerance.
(2) Other	Powdery Mildew Rust	100mL per 100L	Apply when infection is expected and repeat as necessary. <b>Resistance Management:</b> Apply a maximum of three Saprol sprays per crop preferably in mixture with protectant fungicide. Use non DMI fungicides at other times. Ensure full coverage of foliage.
Stone fruit (excluding plums)	Brownrot	100mL per 100L (at least 2L/ha)  <b>POST HARVEST DIP TO CONTROL BROWN ROT:</b> 100mL per 100L	Apply at 7-10 day intervals from pink bud to shuck fall. Use the shorter spray interval under severe infection conditions or where heavy infection has occurred in the previous season. Under slow drying conditions some skin marking may occur on smooth skin varieties where spray deposits run to drips. Do not apply within one day of harvest. Saprol may provide some suppression of European red mite. <b>Resistance Management:</b> Apply a maximum of three Saprol sprays, preferably in a mixture with non DMI fungicide. Use non DMI fungicides at other times. <b>Note:</b> Rhizopus fruit rot will not be controlled.
Stone fruit (excluding plums)	Rust	100mL per 100L	Apply at first sign of disease and repeat at 10-14 day intervals using the shorter interval if the disease is severe. <b>Resistance Management:</b> Apply a maximum of three Saprol sprays, preferably in a mixture with non DMI fungicide. Use non DMI fungicides at other times.
Strawberries	Frogs eye leaf spot	200mL per 100L (Use a minimum of 2L/ha)	Begin spraying as soon as new growth is seen. Frogs eye is a wet weather disease. If troublesome, spray every 7-10 days. Do not apply within 14 days of harvest. <b>Resistance Management:</b> Apply a maximum of three Saprol sprays, preferably in a mixture with a protectant fungicide. Use non DMI fungicides at other times. Ensure full coverage of foliage.
Tamarillos	Powdery mildew	100 ml per 100L (at least 2 litres/ha)	Apply at 14-21 day intervals throughout the season. Use the shorter interval if the disease is severe. Do not apply within 14 days of harvest. <b>Resistance Management:</b> Apply a maximum of three Saprol sprays per crop preferably in mixture with protectant fungicide. Use non-DMI fungicides at other times. Ensure full coverage of foliage.
Tomatoes	Leaf mould (Cladosporium)	150mL per 100L (at least 1.5L/ha)	Apply as a preventative spray at 7-10 day intervals. Do not apply within 3 days of harvest.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THE LABEL