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Poppies!

...a proud Tasmanian industry.

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Welcome to the Spring Edition of In a Capsule
(previous edition – 20 August 2021)

SITE DIRECTED NUCLEASE-1 (SDN-1) REGULATION

Poppy Growers Tasmania together with industry partners Extractas, Palla Pharma and Sun Pharma meet with Primary Industries Minister, Guy Barnett on Tuesday 17th August 2021 to discuss with him the industry’s concerns regarding the Governments intention to regulate SDN-1 (CRISPA) Modified Organisms in Tasmania.

Essentially SDN-1 is a **mutation breeding technique** which seeks to develop new traits and breeding lines through the alteration of the gene sequences of an organism. In conventional mutation breeding (CMB), plant parts are exposed to mutagenic chemicals or radiation to produce new genetic changes, however this can take many years to produce commercial varieties. SDN-1, on the other hand, is a targeted technology which causes small changes and is much faster and easier in regard to the development of **new varieties**. It is therefore of **considerable interest to the commercial poppy companies in Australia** and overseas. In 2018, the European Court of Justice (ECJ) ruled that mutation breeding was a form of gene editing and was therefore regulated under the *2001 GMO Directive*. **Australia, the USA and most other non-European countries have officially decided not to regulate SDN-1 as a GMO technology.**

The Minister gave our group a very good hearing and listened intently as we provided an overview of our concerns and what the impact of the proposed regulation would have on research and development for pharmaceutical crops.

Arising from our discussions, the Minister undertook to continue to work with our industry to investigate avenues to accommodate our concerns should this advanced plant breeding technology be regulated under the provisions of the (SDN-1 Modified Organism Regulations 2020).

Our submission is available at:
www.poppygrowers.com

POPPY LICENSING

As advised in the June 2021 edition of In A Capsule, the PACB had agreed to establish an industry working group to review and hopefully simplify grower licensing regulations.

As an integral part of the industry meeting on the 17th August 2021 this matter was progressed with all parties now having a clear understanding that the streamlining and efficiencies expected as a result of the introduction of the 5 year growers licensing system had not delivered the efficiencies as were envisaged at that time.

We look forward to working collaboratively with all parties involved to ensure we deliver an efficient and streamlined licensing system while still retaining the essential security elements that are the hallmarks of the Tasmanian poppy industry.

SUN PHARMA - Field Officer News

Farewell to Andrew Legro

Earlier this year, respected and hard-working Central Midlands Field Officer Andrew Legro notified Sun Pharma of his intention to depart the business to take up an Account Manager/Senior Agronomist role with Nutrien Ag solutions, which he commenced at the end of June.

Andrew has been an invaluable asset to the field service team since his return to the business from then TP Jones in 2019, and his service of nearly a decade to GSK/Sun Pharma has been notable. The provision of dedicated service levels and consistent competitive returns to growers across the central and particularly southern midlands regions have been hallmarks of Andrew’s tenure with the business, and he leaves a legacy in which he is held in high esteem by both his fellow colleagues and growers. We take the opportunity to wish Andrew continued success in his career progression and in his new role.

PGT takes this opportunity to extend its very best wishes to Andrew as he undertakes his new role with Nutrien. We look forward to seeing him out and about and on-farm. Andrew has been and no doubt will continue to be in his new role an absolute pleasure to work with.

Since June, Central Midland Field Officer Peter “Golly” Roberts has covered the southern midland grower base whilst Sun Pharma sought to find a suitable long term replacement for this role.

Welcome to Rebecca Lovell

Sun Pharma wishes to announce the appointment of Rebecca Lovell to the Field Services team as Southern Field Officer. Rebecca commenced on 17th August and is based in the Tunbridge area, currently servicing the southern midland grower base in conjunction with Golly Roberts for the 21/22 season. Rebecca is well credentialed and experienced, having worked as a shearing shed hand for 5 years before completing a Bachelor of Applied Science (Agriculture) at UTAS in 2008 and working with the Grain Research Team at the Tasmanian Institute of Agriculture for 11 years thereafter on a wide variety of cereal and oilseed crop trials. Following her tenure at TIA, Rebecca has worked at Driscoll's as a Crop Supervisor (Berries) and immediately prior to joining SUN was working at Somercotes Cherries in Ross.

We congratulate Rebecca on her appointment and wish to highlight to Sun Pharma growers (both past and present) south of Campbell Town that having Rebecca join the team is a positive signal of our long term commitment to the region during what is currently a challenging period for the business.

PGT takes this opportunity to welcome Rebecca and wish her every success in her new role with Sun Pharma.

Sun Pharma Field Officers and Districts

Circular Head/North West — Russell Barker, 0428 144 464

Western/Central — Nick Cook, 0418 140 164

Eastern — Steve Cook, 0418 507 015, Regional Field Manager

North Eastern — Will Byrne, 0427 227 314

Northern Midlands — Mark Tate, 0407 099 150

Central Midlands — Peter Roberts, 0418 126 869

Southern — Rebecca Lovell, 0449 182 108

PALLA PHARMA NEWS – SEASON 2021-2022

Palla Pharma took the very difficult decision to not grow poppy this year, as it was time to be prudent and to consolidate the utilisation of existing inventory. We are fully committed to Tasmanian Poppy Growers and look forward to speaking directly with growers in the new year, securing hectareage for the 2022 – 2023 season. We thank you for your patience, understanding and support. Tasmanian Manager David Cowle is contactable on 0409 300 562 or david.cowle@pallapharma.com for any enquires.

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PRIMARY PRODUCER SAFETY REBATE SCHEME

PGT along with other members of the Safe Farming Tasmanian Reference Group have been heavily involved in the development of the abovementioned scheme. With up to \$5,000.00 in rebates the Scheme provides an ideal opportunity for farmers to implement safety measures that help reduce work related injuries in the farming sector.

Please see details below:

Primary Producer Safety Rebate Scheme

The Primary Producer Safety Rebate Scheme of \$2 million is available from 1 October 2021. Rebates of \$5,000 are available for eligible items that address these hazards. The Tasmanian Government is encouraging relevant workplaces to take part in the rebate scheme, to help reduce farm deaths and injuries.

Eligibility:

The rebate scheme is specifically available to workplaces within the agriculture sector that:

- have farming as their main source of income
- operate a business in Tasmania
- are a small business, medium business and sole traders (people without workers).

As part of your application, you'll need to identify the hazard at your workplace, explain what the risk associated with that hazard is, and why implementing one of the eligible items would mitigate that risk.

What is included:

The rebate is available for eligible items that can remove or reduce the risk to safety caused by the top 5 hazards facing the agriculture sector. These hazards are:

- being hit by moving objects
- body stressing
- falls, trips and slips
- hitting objects with a part of the body
- vehicle incidents.

To address quad bike and tractor (vehicle) incidents, helmets and training are included in relation to applicants who own a quad bike, side-by-side vehicle, or tractor for work purposes.

The full list of eligible items will be available closer to 1 October 2021.

Apply for a rebate:

You will be able to apply for a rebate from 1 October 2021.

For further details in respect of applying for the rebate and/or assistance with your applications, please contact Safe Farming Tasmania Consultants:

Phill John 0407 01 400 phillip.john@dpipwe.tas.gov.au

Stuart Beams 0400 140 146 Stuart.beams@justice.tas.gov.au

AGRICULTURAL DEVELOPMENT FUND (ADF)

Please see attached flyer for further information.

Agricultural RD&E Funding

AGRICULTURAL DEVELOPMENT FUND (ADF)

Applications are now open for agricultural Research, Development and Extension (RD&E) funding through the first grant round of the Tasmanian Government's **\$3 million** Agricultural Development Fund (ADF).

The goal of the ADF is to **promote innovation and sustainable growth** in Tasmanian agriculture. The fund will support RD&E projects that have strong industry support and partnership; that will deliver broad industry benefits; and that demonstrate a clear strategy to deliver on-farm impacts and contribute to sustainable growth and jobs in agriculture.

Preference will be given to projects related to:

Climate-responsive agriculture

Biosecurity and risk mitigation

Digital transformation

Rapid response



Applications for the first funding round close on **Friday 10 September 2021**.

For more information and to apply, please visit www.dpipwe.tas.gov.au/ADF

AgriGrowth Tasmania
Department of Primary Industries, Parks, Water and Environment



My very best wishes for a successful 2021/2022 poppy season.



Kind regards,
Philip Loane - President

PROMOTION FEATURE

Growers are reminded that before applying any product to their poppy crop, they should in the first instance discuss its use with their poppy company field officer.

RanMan 400 SC

For full product disclosure, please visit:

<https://www.upl-ltd.com/au/product-details/ranman-400SC>



400g/L Cyazofamid

The fungicide for the protection of Poppies from Systemic Downy Mildew

UPDATE ON RANMAN USE IN POPPIES

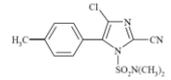
- What is RanMan?
- How does it work?
- Use in Poppies
- 'Must do' when applying the product
- Other uses for RanMan
- Commercial information



RanMan 400SC

PRODUCT FEATURES

- Brand: RanMan® 400SC
- Technical: Cyazofamid
- Formulation: SC
- Chemical Class: Cyano-imidazole
- FRAC Code: Z1
- Activity: Fungicide
- Dose Rate /hectare: 150-200ml
- Market Segment: Broccoli, Potato, Poppies, Silverbeet, Spinach, Brassica seedlings, Nursery stock and Basil
- Selectivity: Oomycetes – (Inc. Phytophthora, Pythium, Plasmopara)



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How does RanMan work?

Cyazofamid belongs to the group cyano-imidazole, categorised by FRAC as Code Z1, with official MOA as C: Respiration – that is, it inhibits cellular respiration – **Qil, Quinone inside Inhibitor**.

The biochemical mode of action in RanMan inhibits all stages of oomycetes fungal development, including zoospore release, mycelial growth, cytosporic germination and oospore and zoosporangia formation.

RanMan is a limited systemic fungicide and has translaminar properties.

RanMan will offer protection for a 7–10 day period.

FUNGICIDE	TARGET
Strobilins	Quinone outside inhibitors
Triazoles	DMI (DeMethylation inhibitors)
Acylalanine	RNA polymerase I
Inorganic (copper)	Multi-site activity
Dithiocarbamate	Multi-site activity

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RANMAN PROVIDES PROTECTION OF NEW LEAVES

Table 1. Protection of new leaves in pot tests

Severely	Water volume 200L/ha
Cyazofamid (40 g a.i./ha)	2000 cm ³ (2000 cm ³)
Untreated control	with no adjuvant

Production of the new leaves with cyazofamid was also confirmed in pot tests, no distribution of cyazofamid on new leaves were conducted in pot tests.

Cyazofamid was applied to potato leaves through perforated paper (under 6 times with various final concentrations of cyazofamid: 200 g/ha of 300 g/ha, equivalent to practical use rate: 80 g/ha, water volume 200 L/ha).

Plants were kept in a greenhouse (Photo period 24C of day, 16°C of night).

Antidromyces investigation and quantification using same method (table 2). Insecticide was conducted.

Fig 3. Method: Distribution on newly developing potato leaves (radiochemical tests)

Fig 4. [¹⁴C] Cyazofamid distribution on young potato leaves

9 days after application

7 days after application

14 days after application

Enteries: ug/cm²
○ Newly developing leaves

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RANMAN RAINFASTNESS

Study conducted on Late blight in potatoes and downy mildew on Broccoli

Plants were applied with RanMan & then exposed to rain 10mm/hr for 2 hours. After drying, each plant was inoculated with zoospore suspensions of the pathogens (*P. infestans*, *P. cubensis*). Fungicidal activities were determined by observing the area of lesion visually & expressed in terms of control value calculated in comparison with the disease severity of the control plot.

RanMan exhibited stable residual activity & excellent rain fastness once dry on the leaf.

RANMAN CONC. (ug/ml)	P. INFESTANS		P. CUBENSIS	
	Residual	Rain fastness	Residual	Rain fastness
25	84 ± 7	100	100	100
6.3	49 ± 16	78 ± 17	96 ± 1	100
1.6	28 ± 15	64 ± 16	96 ± 1	98 ± 2
0.4	nt*	19 ± 27	33 ± 29	62 ± 23
0.1	nt	nt	nt	33 ± 8

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EFFECTS ON BENEFICIAL INSECTS

- RanMan has been tested on a range of beneficial arthropods in both laboratory & field conditions
- RanMan does not have any negative effects on useful species such as honey bees & earthworms

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ENVIRONMENTAL SAFETY

- RanMan has an excellent environmental profile
- RanMan & its major metabolites degrade very rapidly in soil through microbial activity. The average half life in soil for RanMan is 5.5 days.
- RanMan has low soil mobility in the top soil 0 – 5 cm
- RanMan is stable to hydrolysis at a range of pH values



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COMPATIBILITY

- RanMan is compatible with other fungicides, insecticides & fertilisers
- Since 2016 when UPL started selling Ranman in Australia in Potatoes, Broccoli and other crops, there has been no reported incidence of incompatibilities in Australia where RanMan has been used
- Always consult the label prior to using the product and if you have any questions regarding compatibility contact your UPL representative

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FUNGICIDE RESISTANCE MANAGEMENT

- RanMan should be used a part of a Resistance Management Program
- Total number of applications in any one crop is not to exceed 4
- There should be no more than 3 consecutive applications before switching to an alternate chemical group
- Due to its novel target site, RanMan shows no cross resistance to Strobilurin and other fungicidal chemical families. It can be an important rotational choice for Fungicide Resistance Management strategies.
- RanMan has been used in USA & Europe for over 10 years and to date there has been no indication of resistance reported

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RANMAN REGISTRATION FOR USE IN POPPIES

CROP	DISEASE	USE RATE / HA
Poppies	Systemic downy mildew (<i>Peronospora pannonica</i>)	200mL

- Early application is critical**
- Apply from 4-leaf stage to row closure
 - Trials have shown 1st application should occur @ 4 leaf stage & the 2nd application 10–14 days later
 - DO NOT apply more than 4 applications per crop
 - DO NOT apply after the full flowering crop growth stage (BBCH 65)



UPL Always read the label & follow the label directions in full before any application 11

RANMAN REGISTRATION FOR USE IN POPPIES

- Thorough coverage is important**
- Use a spray volume of 100 L/ha to achieve thorough & uniform foliar coverage
 - DO NOT apply less than 7 days after the initial treatment
 - DO NOT apply with aircraft
 - Apply with Activator Surfactant at a rate of 100 ml product/100 L



Treated with RanMan



Untreated

UPL Always read the label & follow the label directions in full before any application 12

REGISTERED LABEL – DIRECTIONS FOR USE

- RESTRAINTS**
- DO NOT apply through any type of irrigation equipment.
DO NOT apply more than 4 applications per crop.
- SPRAY DRIFT RESTRAINTS**
- DO NOT apply with spray droplets smaller than a MEDIUM spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the British Crop Production Council Guideline.
DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour as measured at the application site.
- Withholding Period**
Harvest: Not required when used as directed.
Grazing: Do not graze or cut for stock food.

UPL Always read the label & follow the label directions in full before any application 13

REGISTRATION AND USE OF RANMAN ON POPPIES

- UPL wishes to thank the Poppy Growers Tasmania for their support in getting this product registered.
 - It started some years ago with small trials, then applying for a special use permit for RanMan use in poppies for systemic downy mildew control and now registration.
- UPL also wishes to thank the 3 major Poppies companies in Tasmania for supporting this permit and for testing and assessing RanMan use on Systemic Downy Mildew.
- Also a BIG thank you goes out to growers and advisers who have helped UPL bring this product to market.

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MICROSTAR PMX

PRECISION STARTER FERTILISER

INNOVATION IN PHOSPHORUS FERTILISATION

HIGH-QUALITY
PLACEMENT/ STARTER
FERTILISER

Containing N, soluble P and micronutrients

agnova.com.au

• Microstar PMX is applied at sowing, in contact with crop seeds

• Microstar PMX contributes to faster crop emergence in a wide range of crops

CONVENTIONAL FERTILISER

applied away from the seed in soil or on soil surface.

The nutrients are distributed throughout the soil profile but not in close contact with the seed.

Use coefficient
15%



MICROSTAR PMX

Precision application in the furrow and in contact with the rooting system. The nutrients are rapidly available to the plant.

Use coefficient
100%

Between 14 to 50 times more granules per linear metre

Innovation. Quality. Solutions.

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We make super
surprisingly straightforward



Contact your Regional Manager
to find out how

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