

**Dazzler Range Organic Berry Farm 13 October 2017 Submission to:
LEGISLATIVE COUNCIL GOVERNMENT ADMINISTRATION COMMITTEE 'B' SUB
COMMITTEE INQUIRY INTO BLUEBERRY RUST**

Steve Beams & Adelle Lynch
Dazzler Range Organic Berry Farm
382 Bowens Rd, Yorktown 7270
dazzlerrangeorganic@bigpond.com
Phone: 0438834771

Postal: 134 Oxford St, Beauty Point 7270

Ms Natasha Exel
Inquiry Secretary
Legislative Council Parliament House
HOBART TAS 7000

cc:

Members of the Committee:

Hon Rosemary Armitage MLC, Member for Launceston

Hon Ivan Dean MLC, Member for Windermere

Hon Kerry Finch MLC, Member for Rosevears

Hon Tania Rattray MLC, Member for McIntyre

Hon Josh Willie MLC, Member for Elwick

Thank you for the opportunity to provide a submission to your enquiry, we would also like an opportunity to appear before the committee and extend an invitation to all members of the committee to visit our farm (subject to the usual biosecurity protocols).

The three outbreaks of blueberry rust have created a serious existential threat to our business, income and peace of mind. Like most practical people we have worked our way through the threats and challenges presented logically.

We have been frustrated by lack of communication from agencies and political leaders and particularly the inconsistency of Biosecurity Tasmania's approach and resolve in tackling the subsequent incursions post 2014. Commitments made to growers at meetings in 2014 have not been kept.

If our farm was to be infected with Blueberry Rust, our business would become unviable, the capital value of our farm would plummet and our transition to self funded retirement would be destroyed. Our submission is as follows

regards

Steve Beams and Adelle Lynch

Background:

Dazzler Range Organic Berry Farm (ABN 96 901 669 803) is a farming

**Dazzler Range Organic Berry Farm 13 October 2017 Submission to:
LEGISLATIVE COUNCIL GOVERNMENT ADMINISTRATION COMMITTEE 'B' SUB
COMMITTEE INQUIRY INTO BLUEBERRY RUST**

partnership established, managed and owned by Adelle Lynch and Steve Beams. It is situated at 382 Bowens Road, Yorktown in the northern end of the West Tamar municipality. See on Google Earth <https://earth.google.com/web/@-41.157649,146.7321162,85.76775916a,771.90800976d,35y,0h,60t,0r/data=CgAoAg>

It has been in commercial blueberry production for more than 12 years with its genesis 5 years prior. It has approximately 2200 blueberry plants in varying stages of production under a 1.1 Ha permanent net structure. This represents 6% of the 18 Ha land tenure.

The property is nestled in the foothills of the Asbestos Range adjacent the Naurantapu National Park and Briggs Reserve. For obvious marketing reasons the farm was named after the close by, Dazzler Range.

It consists of former poorly managed regrowth Sclerophyll forest with coastal scrub, a semi permanent creek feeding a couple of small dams constructed by the previous owner. These provide irrigation water through a computer controlled 4 km microspray system.

Power for the irrigation and the rest of the operation is provided by a 3kw grid interactive solar system supplemented by Transend.

The majority of soil on the property is derived from silty mudstone and very poor (class 5) and not considered suitable for agriculture.

Built infrastructure includes a 280m² residence, packing and machinery shed, pump shed and original owners shack. Production facilities include a modern stainless steel packing/grading room complete with coolrooms and freezers..

The production season runs from mid January till the end of March (10 to 12 weeks) Fruit is sold fresh through agents in Melbourne, Adelaide, Sydney and Brisbane in cooperation with another certified organic grower.

All labour is source locally on a casual basis, approximately 5 -6 FTE during the season and during pruning. We have had the core group of workers for 5 seasons. All of the wages we pay stays in the local economy.

Fruit that does not meet our very high fresh standards is frozen and graded then packed in 1kg bags for sale in select retail outlets in Melbourne and Wynyard.

The berry operation has been sufficiently profitable for the past 4 seasons for the owners to both retire from fulltime work as a registered nurse and stevedore.

**Dazzler Range Organic Berry Farm 13 October 2017 Submission to:
LEGISLATIVE COUNCIL GOVERNMENT ADMINISTRATION COMMITTEE 'B' SUB
COMMITTEE INQUIRY INTO BLUEBERRY RUST**

Prior to starting the enterprise, a comprehensive business plan was completed with input from leading pioneers of the blueberry industry in Tasmania, award winning organic farmers and Dept of Primary Industry.

The farm has been certified organic by NASAA for most of its commercial life, the establishment of the bushes and all subsequent actions were in keeping with national organic standards including the use of certified soil improvement inputs. Full organic certification was achieved in 2 years from application rather than the usual 3 years.

Apart from the original purchase of the land, the enterprise was funded from savings and sweat equity. Income from sales have been used to improve the business and enhance efficiency.

The aim has always been to develop an economic, environmental, ethical and socially sustainable business and lifestyle.

This has been achieved through intelligent, thoughtful hard work of the owners with the help and support of family, friends and contractors. This farming enterprise is our largest asset and its capital value and earning capacity is a large piece of our transition to retirement strategy. We have planned for many years to provide for our own retirement rather than draw on the government pension.

The actions taken by Biosecurity Tasmania to address the 2014 and 2016 outbreaks of blueberry rust;

It is a challenge to get one's head around the actions of BT in response to the 2014, 2016 and now 2017 outbreaks of blueberry rust.

2014 was public:

- BT went to the media calling for public support to eradicate rust through tracking and detection of infected plants

swift:

**Dazzler Range Organic Berry Farm 13 October 2017 Submission to:
LEGISLATIVE COUNCIL GOVERNMENT ADMINISTRATION COMMITTEE 'B' SUB
COMMITTEE INQUIRY INTO BLUEBERRY RUST**

- Meetings with growers were called and information shared directly and with email/ alerts
- & brutal:**
- the two infected small farms had their plants destroyed, no ifs, buts or thankyou.... police were used to support BT officers in the eradication

The outcome, however, was apparently successful eradication. Having met one of the affected farmers, I am not convinced the level of brutality was justified or needed. I use the term apparently, as BT has not answered any questions about any re occurrence on these properties.

The strategy of BT was to get growers together, inform them and work collaboratively. Meetings were held, commitments made and BT started the process of securing market access and inspecting properties. They provided good advice on farm hygiene and presented as a professional committed organisation.

The minister, Jeremy Rockliff, did his usual presser, telling everyone how well the Biosecurity system was working and re announced an extra dog team at the airports

2016 was a different story again,

the some what muted announcement came straight after the minister announced Tasmania's Blueberry Rust free status had been restored, again, after some delay, meetings of growers with BT were held, the information flow from BT was guarded and limited about the nature, location and size of the infestation.

We got the impression that BT officers were under instructions not to tell anything apart from the bare minimum detail. As Tasmania is small place, information eventually leaked out.

BT promised an economic and social study would be completed to assist them with a strategy to "deal" with the incursion. Blueberry growers were asked to contribute to that study, this was readily agreed to on the proviso, the resultant report would be made available to growers. Despite many requests, this report was never made available to growers until a redacted version was finally released this week after several FOI requests.

As one of the 18 farms surveyed, we are appalled some of the deficiencies of the report. One glaring statement was the identification of only 42 blueberry farms in Tasmaniawhen in excess of 80 have been identified.

2. Past and present regulatory requirements relating to the blueberry industry in Tasmania;

We don't have a problem with current regulatory requirements relating to the blueberry industry in Tasmania.

We have a problem with how those regulating and enforcing those requirements have been inconsistent in the application of their powers and responsibilities, if you are a small certified organic grower, you will be treated differently to a large corporate low cost/low value grower.

Even, in a political sense, we cannot get a meeting with the Minister and barely a response to our emails while the large corporate grower appears to have unfettered access.

We are asked to trust those in power and those with delegated authority to do the right thing, follow accepted scientific based procedures and consult and listen to growers and the community.

In recent years, that trust has been eroded due to episodes such as the "Fox Taskforce" and the continuing ideological push for industry self regulation. Effective Biosecurity is too important to all Tasmanian agricultural industries to be left to self regulation.

3. The future of Tasmania's blueberry industry, including the impacts of previous, current and any future outbreaks of blueberry rust;

Tasmania, as an island situated in the roaring forties, has huge potential for high value food production, its remoteness is both a boon and a bane, we should be taking advantage of our natural barriers to pests and diseases and have the best biosecurity system in the world.

We will always be an expensive place to ship from so we need to focus our efforts on producing the very best, highest value produce to supply the world, not low cost/high volume supermarket shelf filling crap.

The market is demanding to know how their fruit is grown, what chemicals are used, how the land is treated and how the workers are treated, the idea that we can solve our agricultural pest problems with just another spray regime is losing currency with farmers because it has lost currency with their customers.

**Dazzler Range Organic Berry Farm 13 October 2017 Submission to:
LEGISLATIVE COUNCIL GOVERNMENT ADMINISTRATION COMMITTEE 'B' SUB
COMMITTEE INQUIRY INTO BLUEBERRY RUST**

If there is a future for a high value blueberry industry in Tasmania, it needs to be blueberry rust free.

If there is to be an increase in investment for certified organic blueberries in Tasmania, Tasmania needs to be blueberry rust free.

For any future potential large investment in agriculture biosecurity risk is a huge consideration....Tasmania needs to demonstrate it has an effective Biosecurity System in place, free from inconsistency and bias. Tasmania need to be blueberry rust free to send a signal to future investors that it has an effective system.

The failure of one grower to maintain appropriate farm hygiene has the potential to increase costs on all other farmers and destroy the business of certified organic growers.

Prevention is better than cure, eradication is the best form of containment, containment is just delaying the inevitable spread of the disease.

The current containment system has demonstrably not worked.

4. The capacity of Biosecurity Tasmania to manage blueberry rust outbreaks and other risks into the future; and

We have had interaction with BT since the initial outbreak in 2014, we have provided complete details of our operations by email and face to face many times. When we were contacted by BT two weeks ago to arrange a suitable farm inspection time, the officer had no idea who we were or where we were.

We fail to understand how a modern organisation can not maintain a simple data base and it undermines our confidence in BT's capacity to manage anything.

BT have used grower organisations as agents, outsourcing communication and programs that they rightly are responsible for and should control.

In effect, this has distanced BT from growers, it also provides someone to blame if things go awry. Industry organisations due to the nature of some of their funding models, do not effectively represent the interests of all growers/members.

**Dazzler Range Organic Berry Farm 13 October 2017 Submission to:
LEGISLATIVE COUNCIL GOVERNMENT ADMINISTRATION COMMITTEE 'B' SUB
COMMITTEE INQUIRY INTO BLUEBERRY RUST**

We have resigned our memberships of FGT and ABGA and have joined the TFGA. The TFGA has a better track record of effective communication and understanding of the majority of growers concerns. TFGA also has the reputation for standing up to governments without compromising its ability to work effectively with government.

We have doubts that BT have the capacity/resources to effectively police that the biosecurity containment plan conditions are being met on infected farms, we have concerns that the conditions are not being adhered to.

We have concerns that picker movement during the season will present a huge risk to the spread of the disease and that BT have no plan to educate/monitor pickers/ labour hire companies and backpackers.

We have concerns that ABGA are holding an international blueberry conference in Launceston during the height of the blueberry season, attracting growers from infected areas in this country and other countries.

5. Any other matters incidental thereto.

Further impacts of blueberry rust to growers/Tasmania are:

- reduction of market access causing a flooding of the remaining open markets, leading to a severe reduction of price for everyone.
- Reduction of access to new international growth markets.
- A severe impact on farm tourism, including farm gate sales and farm stays on blueberry farms.
- The end of pick your own (PYO) operations for blueberries in Tasmania.
- The reduction of capital value of blueberry farms impacting on ability to fund expansion.
- Destruction of Tasmania's image as a producer of quality blueberries
- More exposure to people and the environment of dangerous chemicals (example MSDS attached)

Actions we would like to see happen:

- Eradication plan developed and implemented
- Evergreen blueberry varieties banned in Tasmania
- Agricultural Labour Hire registration including picker registration
- PYO blueberry operations banned and assistance provided for restructuring.
- A compensation scheme for effected farmers funded 50:50 by government and an industry per kg levy

**Dazzler Range Organic Berry Farm 13 October 2017 Submission to:
LEGISLATIVE COUNCIL GOVERNMENT ADMINISTRATION COMMITTEE 'B' SUB
COMMITTEE INQUIRY INTO BLUEBERRY RUST**

Attachments:

Attachment is a PDF document DELAN 700_WG_FUNGICIDE MSDS

Safety data sheet

Page: 1/11

BASF Safety data sheet
Date / Revised: 10.01.2017
Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

1. Substance/preparation and manufacturer/supplier identification

DELAN 700 WG FUNGICIDE

Use: crop protection product, fungicide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)
Level 12, 28 Freshwater Place Southbank
Victoria 3006, AUSTRALIA
Telephone: +61 3 8855-6600
Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat. 3 (oral)

Serious eye damage/eye irritation: Cat. 1

Skin sensitization: Cat. 1A

Carcinogenicity: Cat. 2

Hazardous to the aquatic environment - acute: Cat. 1

Hazardous to the aquatic environment - chronic: Cat. 1

Label elements and precautionary statement:

Pictogram:



BASF Safety data sheet
 Date / Revised: 10.01.2017
 Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

Signal Word:

Danger

Hazard Statement:

Toxic if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Wash contaminated body parts thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/clothing/eye protection.

Precautionary Statements (Response):

IF SWALLOWED: rinse mouth. IF ON SKIN (or hair): Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash it before reuse. Collect spillage.

Precautionary Statements (Storage):

Store locked up.

Precautionary Statements (Disposal):

Dispose of contents/container to hazardous or special waste collection point.

Other hazards which do not result in classification:

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

fungicide, water dispersible granules

Hazardous ingredients

Dithianon

Content (W/W): 70 %
 CAS Number: 3347-22-6

Acute Tox.: Cat. 2 (Inhalation - dust)
 Acute Tox.: Cat. 4 (oral)
 Eye Dam./Irrit.: Cat. 1
 Skin Sens.: Cat. 1A
 Carc.: Cat. 2
 Aquatic Acute: Cat. 1
 Aquatic Chronic: Cat. 1

BASF Safety data sheet
Date / Revised: 10.01.2017
Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Specific hazards:

carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

BASF Safety data sheet
Date / Revised: 10.01.2017
Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Dust can form an explosive mixture with air. Avoid dust formation. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Components with occupational exposure limits

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

PVC-coated gloves

BASF Safety data sheet
Date / Revised: 10.01.2017
Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

Eye protection:
Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:
Standard work clothes and shoes.

General safety and hygiene measures:
Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Wash contaminated clothing before reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Before eating, drinking, or smoking, wash face and hands with soap and water.

9. Physical and Chemical Properties

Form: granules
Colour: brown
Odour: characteristic
Odour threshold: Not determined due to potential health hazard by inhalation.

pH value: approx. 3 - 5
(1 %(m), approx. 20 °C)
(as suspension)

Melting point: > 20 °C
The statements are based on the properties of the individual components.

Boiling point: The product is a non-volatile solid.

Flash point: not applicable

Evaporation rate: not applicable

Flammability (solid/gas): not highly flammable (Regulation 440/2008/EC, A.10)

Lower explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

BASF Safety data sheet
 Date / Revised: 10.01.2017
 Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

| | | |
|---|--|--|
| Thermal decomposition: | 150 °C , 550 kJ/kg (onset temperature) | (DSC (OECD 113)) |
| | 375 °C , > 250 kJ/kg (onset temperature) | (DSC (OECD 113)) |
| Self ignition: | Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. not self-igniting | (Method: Regulation 440/2008/EC, A.16) |
| Self heating ability: | It is not a substance capable of spontaneous heating. | |
| Explosion hazard: | not explosive | (Directive 92/69/EEC, A.14) |
| Fire promoting properties: | not fire-propagating | (Regulation 440/2008/EC, A.17) |
| Vapour pressure: | The value has not be determined because of the high melting point. | |
| Bulk density: | 528 - 600 kg/m ³ (20 °C) | |
| Relative vapour density (air): | not applicable | |
| Solubility in water: | dispersible | |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable | |
| Viscosity, dynamic: | not applicable, the product is a solid | |

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

| | |
|------------------------|--|
| Thermal decomposition: | 150 °C, 550 kJ/kg (DSC (OECD 113)) (onset temperature) |
| Thermal decomposition: | 375 °C, > 250 kJ/kg (DSC (OECD 113)) (onset temperature) |
| Thermal decomposition: | Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. |

BASF Safety data sheet
Date / Revised: 10.01.2017
Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

Substances to avoid:
strong acids, strong bases, strong oxidizing agents

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Of high toxicity after single ingestion.

Experimental/calculated data:
LD50 rat (oral): 273 mg/kg (Directive 84/449/EEC, B.1)

LC50 rat (by inhalation):
Not inhalable due to the physico-chemical properties of the product.

LD50 rat (dermal): > 4,000 mg/kg (OECD Guideline 402)
No mortality was observed.

Irritation

Assessment of irritating effects:
May cause severe damage to the eyes. Not irritating to the skin.

Experimental/calculated data:
Skin corrosion/irritation rabbit: (Directive 84/449/EEC, B.4)

Serious eye damage/irritation rabbit: (Directive 84/449/EEC, B.5)

Respiratory/Skin sensitization

Assessment of sensitization:
The product has not been tested. The statement has been derived from the properties of the individual components. Sensitization after skin contact possible.

Information on: Dithianon
Experimental/calculated data:
Guinea pig maximization test guinea pig: (OECD Guideline 406)
An aqueous solution was tested.

Germ cell mutagenicity

Assessment of mutagenicity:
The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dithianon

Assessment of carcinogenicity:

Long term administration of organotoxic doses revealed a carcinogenic effect. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dithianon

Assessment of teratogenicity:

The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses which impaired body weight gain in parental animals.

Experiences in humans

Information on: Dithianon

Experimental/calculated data:

skin irritation, itching, erythema: Experiences in use

Specific target organ toxicity (single exposure):

Assessment of STOT single:

The available information is not sufficient for the evaluation of specific target organ toxicity.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dithianon

Assessment of repeated dose toxicity:

BASF Safety data sheet
Date / Revised: 10.01.2017
Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

Repeated exposure may affect certain organs. Damages the kidneys.

Aspiration hazard

No aspiration hazard expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Very toxic to aquatic life with long lasting effects.

Toxicity to fish:
LC50 (96 h) 0.033 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:
EC50 (48 h) 0.157 mg/l, *Daphnia magna*

Aquatic plants:
EC50 (72 h) 0.091 mg/l, *Chlorella vulgaris*

Mobility

Assessment transport between environmental compartments:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Dithianon
Assessment transport between environmental compartments:
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Dithianon
Assessment biodegradation and elimination (H₂O):
According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

BASF Safety data sheet
Date / Revised: 10.01.2017
Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

Bioaccumulation potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Dithianon

Bioaccumulation potential:

Bioconcentration factor: 28 (3 d), Oncorhynchus mykiss (OECD Guideline 305 E)

Does not accumulate in organisms.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Domestic transport:

| | |
|-----------------------|--|
| Hazard class: | 6.1 |
| Packing group: | III |
| ID number: | UN 2588 |
| Hazard label: | 6.1, EHSM |
| Proper shipping name: | PESTICIDE, SOLID, TOXIC, N.O.S. (contains DITHIANON) |

Further information

Hazchem Code:2X

IERG Number:34

Sea transport

IMDG

| | |
|-----------------------|--|
| Hazard class: | 6.1 |
| Packing group: | III |
| ID number: | UN 2588 |
| Hazard label: | 6.1, EHSM |
| Marine pollutant: | YES |
| Proper shipping name: | PESTICIDE, SOLID, TOXIC, N.O.S. (contains DITHIANON) |

BASF Safety data sheet
Date / Revised: 10.01.2017
Product: **DELAN 700 WG FUNGICIDE**

Version: 6.0

(30665432/SDS_CPA_AU/EN)

Date of print 11.01.2017

Air transport

IATA/ICAO

| | |
|-----------------------|--|
| Hazard class: | 6.1 |
| Packing group: | III |
| ID number: | UN 2588 |
| Hazard label: | 6.1 |
| Proper shipping name: | PESTICIDE, SOLID, TOXIC, N.O.S. (contains DITHIANON) |

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 6

Registration status:

| | |
|----------------------|-------------------|
| AICS, AU | released / listed |
| APVMA Approval 50029 | |

16. Other Information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.