

# Section 1 - Identification of The Material and Supplier

Adama Australia Pty Ltd,

Level 1, Building B

Telephone (02)9431 7800 (office hours) Emergency 1800 033 111 (24 hours) Fax (02)9431 7700

Chemical nature:

Blend of active ingredients in a suitable medium.

207 Pacific Highway St Leonards, NSW 2065

Trade Name: **Product Use:** 

ACN 050 328 973

Radial Fungicide

Agricultural fungicide for use as described on the product label. April, 2013

**Creation Date:** 

This version issued: June, 2023 and is valid for 5 years from this date.

Poisons Information Centre: Phone 13 1126 from anywhere in Australia

# Section 2 - Hazards Identification

## Statement of Hazardous Nature

SUSMP Classification: S5

**ADG Classification:** Class 9: Miscellaneous dangerous goods. UN Number: 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.







# GHS Signal word: DANGER

Flammable liquids - category 4 Skin sensitisation – category 1 Eye irritation - category 2A Carcinogenicity - category 2 Reproductive toxicity – category 1B Hazardous to the aquatic environment (chronic) - category 2

## HAZARD STATEMENT:

H227: Combustible liquid.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H351: Suspected of causing cancer.

H360Df: May damage the unborn child. Suspected of damaging fertility.

H411: Toxic to aquatic life with long lasting effects.

### PREVENTION

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P264: Wash contacted areas thoroughly after handling.

P281: Use personal protective equipment as required.

### RESPONSE

P352: Wash with plenty of soap and water.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: If exposed or concerned: Get medical advice.

P332+P313: If skin irritation occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P391: Collect spillage.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used.

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#### STORAGE

P402: Store in a dry place.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

#### Emergency Overview

Physical Description & colour: Clear, brownish liquid.

#### Odour: Characteristic odour.

Major Health Hazards: limited evidence of a carcinogenic effect, eye irritant, skin sensitiser, possible risk of impaired fertility, possible risk of harm to the unborn child.

| Section 3 - Composition/Information on Ingredients |             |        |                          |                           |
|--|-------------|--------|--------------------------|---------------------------|
| Ingredients  | CAS No      | Conc,% | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
| Azoxystrobin                                       | 131860-33-8 | 75g/L  | not set                  | not set                   |
| Epoxiconazole                                      | 133855-98-8 | 75g/L  | not set                  | not set                   |
| Tall oil rosin                                     | 8052-10-6   | >10    | not set                  | not set                   |
| 2-Furanmethanol, tetrahydro-                       | 97-99-4     | >10    | not set                  | not set                   |
| Other non hazardous ingredients                    | secret      | to 100 | not set                  | not set                   |

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

# Section 4 - First Aid Measures

#### General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. Skin Contact: Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

## Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. This product is classified as a C1 combustible product. There is little risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

Fire decomposition products from this product are likely to be toxic and corrosive if inhaled. Take appropriate protective measures.

Extinguishing Media: Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant guantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus. C1

Flammability Class:

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# Section 6 - Accidental Release Measures

**Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

# Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Check packaging - there may be further storage instructions on the label.

# **Section 8 - Exposure Controls and Personal Protection**

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

#### SWA Exposure Limits TWA (mg/m<sup>3</sup>)

### STEL (mg/m<sup>3</sup>)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Azoxystrobin is set at 0.1mg/kg/day. The corresponding NOEL is set at 10mg/kg/day.

The ADI for Epoxiconazole is set at 0.01mg/kg/day. The corresponding NOEL is set at 1mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, Dec 2012.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems. **Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

**Skin Protection:** You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber, PVC.

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being handled commercially.

# **Section 9 - Physical and Chemical Properties:**

Physical Description & colour: Clear, brownish liquid.

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| Odour:                        | Characteristic odour.                            |
|-------------------------------|--|
| Boiling Point:                | Not available.                                   |
| Flash point:                  | 80°C   |
| Upper Flammability Limit:     | No data.   |
| Lower Flammability Limit:     | No data.   |
| Autoignition temperature:     | No data.   |
| Freezing/Melting Point:       | No specific data. Liquid at normal temperatures. |
| Volatiles:                    | No data.   |
| Vapour Pressure:              | No data.   |
| Vapour Density:               | No data.   |
| Specific Gravity:             | 1.10-1.20  |
| Water Solubility:             | No data.   |
| pH:                           | 4.0-8.0 (1% in water)                            |
| Volatility:                   | No data.   |
| Odour Threshold:              | No data.   |
| Evaporation Rate:             | No data.   |
| Coeff Oil/water distribution: | No data  |
| Particle Characteristics:     | Not applicable to liquids.                       |
|                               |  |

# Section 10 – Stability and Reactivity

**Reactivity**: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong acids, strong bases, strong oxidising agents.

**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form hydrogen chloride gas, other compounds of chlorine. May form hydrogen fluoride gas and other compounds of fluorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

# Section 11 - Toxicological Information

#### Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

Epoxiconazole is a SWA Class 3 Reproductive risk, possible risk of impaired fertility. This product is likely to cause decreased fertility in humans.

#### **Classification of Hazardous Ingredients**

## Ingredient

Epoxiconazole

Health Hazard Statement Codes

H351, H360Df, H411

- Carcinogenicity category 2
- Reproductive toxicity category 1B
- Hazardous to the aquatic environment (chronic) category 2

Azoxystrobin

#### H331, H410

• Acute toxicity (inhalation) - category 3

Skin sensitisation – category 1

- Hazardous to the aquatic environment (acute) category 1
- Hazardous to the aquatic environment (chronic) category 1

Rosin

H317

2-furanmethanol, Tetrahydro-

H360Df, H319

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- Reproductive toxicity category 1B
- Eye irritation category 2

#### **Potential Health Effects**

### Inhalation:

**Short term exposure:** Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term exposure: No data for health effects associated with long term inhalation.

### Skin Contact:

**Short term exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mild transient discomfort. Product is classified as a skin sensitiser. Repeated/prolonged exposure may result in sensitisation. Once sensitised, further exposure to this product, or other products containing the sensitising ingredients, may cause allergic reactions which in some cases can be severe.

Long Term exposure: No data for health effects associated with long term skin exposure.

### Eye Contact:

**Short term exposure:** This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term exposure: No data for health effects associated with long term eye exposure.

### Ingestion:

**Short term exposure:** Significant oral exposure is considered to be unlikely. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term exposure: No data for health effects associated with long term ingestion.

#### Carcinogen Status:

**SWA:** Epoxiconazole is classified by SWA as a Class 3 Carcinogen, possibly carcinogenic to humans. See the SWA website for further details. A web address has not been provided as addresses frequently change.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

# Section 12 - Ecological Information

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

# **Section 13 - Disposal Considerations**

**Disposal:** Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 http://www.chemclear.com.au/ and for help with the disposal of empty drums, contact DrumMuster http://www.drummuster.com.au/ where you will find contact details for your area.

# **Section 14 - Transport Information**

Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg(L) or less; or IBCs, but classed as Dangerous by IATA and IMDG/IMSBC when carried by Air or Sea transport (see details below).

UN Number: 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Hazchem Code: •3Z Special Provisions: 179, 274, 331, 335, AU01 Limited quantities: ADG 7 specifies a Limited Quantity value of 5 L for this class of product. Dangerous Goods Class: Class 9: Miscellaneous Dangerous Goods. Packing Group: III Packing Instruction: P001, IBC03, LP01

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Class 9 Miscellaneous Dangerous Goods shall not be loaded in the same vehicle or packed in the same freight container with Dangerous Goods of Class 1 (Explosives).

# Section 15 - Regulatory Information

**AIIC:** All of the significant ingredients in this formulation are compliant with AICIS regulations. The following ingredients: Azoxystrobin, Epoxiconazole are mentioned in the SUSMP.

## **Section 16 - Other Information**

This SDS contains only safety-related information. For other data see product literature.

### Contact Points:

Call Adama on (02)9431 7800 and ask for the technical manager.

Fax: (02)9431 7700

| Police and Fire Brigade: | Dial 000  |
|--------------------------|---|
| Emergency contact:       | 1800 033 111 (24 hours)   |
| If ineffective:          | Dial Poisons Information Centre<br>(13 1126 from anywhere in Australia) |

The information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Adama Australia Pty Ltd makes no representation as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020) and GHS Revision 7

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