

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

Product Identifiers

Product Name: Acetosyringone
Product Number: A104

Other means of identification

Synonyms: 3',5'-Dimethoxy-4'-hydroxyacetophenone

Recommended Use For Research/Laboratory Use ONLY

Restrictions on Use Products manufactured by PhytoTechnology Laboratories and supplied by Austratec Pty Ltd are intended for research and laboratory use ONLY. Products are NOT to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

Details of Importer/Supplier

Company: Austratec Pty Ltd, Factory 12/49 Corporate Blvd, Bayswater VIC 3153, AUSTRALIA
Telephone: +61 3 9729 4528
Fax: +61 3 9729 4578
Website: www.austratec.com.au

Emergency phone number 13 11 26 (24 hour – Poisons Information Centre)

2. HAZARD(S) IDENTIFICATION

GHS Classification Skin Irritation (Category 2)
Serious Eye Damage/Eye Irritation (Category 2/2A)
Specific target organ toxicity, single exposure, Respiratory System (Category 3)

GHS Label elements, including precautionary statements

Pictogram:  Signal Word: **WARNING**

Hazard Statement(s) H315 – Causes skin irritation
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.

Precautionary statement(s)

Prevention: P261 – Avoid breathing dust.
P264 – Wash hands thoroughly after handling.
P271 – Use only outdoors or in a well ventilated area.
P272 – Contaminated clothing should not be allowed out of the workplace.
P280 – Wear protective gloves/protective clothing/eye protection.

Response: P302 + P352 – IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water. Remove contact lenses if present and easy to do. Continue rinsing.
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest position comfortable for breathing.
P312 – Call a Poison Centre or doctor if feeling unwell.
P332 + P313 – If skin irritation occurs: Get medical advice/attention.
P333 + P313 – If skin irritation or rash occurs; Get medical advice/attention.
P337 + P313 – If eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.
P363 – Wash contaminated clothing before reuse.

Storage: P403 + P223 – Store in a well-ventilated place. Keep container tightly closed
P405 – Store locked up.

Disposal: P501 - Dispose of contents/container to an approved chemical waste disposal plant.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS Number: 2478-38-8 EC Number: 219-610-5
Formula: C₁₀H₁₂O₄ Molecular Weight: 196.20 g/mol

| INGREDIENT | CAS NUMBER | PERCENTAGE | HAZARDOUS |
|----------------|------------|------------|---|
| Acetosyringone | 2478-38-8 | >99% | No exposure limits established by OSHA or ACGIH |

4. FIRST AID MEASURES

Description of first aid measures

General advice: Consult a doctor/physician. Show this safety data sheet to the doctor in attendance.

Ingestion: MAY CAUSE IRRITATION IF SWALLOWED. If swallowed, wash mouth out with water. Never give anything by mouth to an unconscious person. Seek medical attention.

Inhalation: MAY CAUSE IRRITATION TO RESPIRATORY TRACT. Safely remove person to fresh air. If not breathing, begin cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Seek medical attention.

Eye contact: DIRECT CONTACT MAY CAUSE IRRITATION, REDNESS, TEARING, OR BLURRED VISION. Flush eye out immediately with water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention if irritation persists.

Skin contact: MAY CAUSE IRRITATION, REDDENING, ITCHING OR INFLAMATION. Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Seek medical attention.

Most important symptoms and effects, both acute and delayed

See section 2 and/or section 11

Recommendation for immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

Suitable extinguishing media Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

Specific hazards arising from the chemical

| | |
|---|--|
| Hazardous combustion products: | May emit toxic fumes under fire conditions. |
| Toxic gases produced: | Carbon dioxide and carbon monoxide. |
| Special protective equipment and precaution for firefighters | In the event of fire, wear full protective clothing and NIOSH (US) or EN145 (EU) approved self contained breathing apparatus. Evacuate the area and fight fire from a safe distance. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | Use personal protection equipment (PPE) recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Methods and materials for containment and cleanup | Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place in a dry container and cover. Remove from area for safe disposal (see section 13). |

7. HANDLING AND STORAGE

| | |
|--|--|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Provide appropriate exhaust ventilation where dust is formed. Wash thoroughly after use. |
| Conditions for safe storage | Keep in a tightly closed container and store in a cool, dry and well ventilated area. Product is hygroscopic, protect from moisture. |
| Recommended Storage Temperature | Room Temperature. |
| Incompatibilities | Strong bases, strong oxidizing agents. |

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

| | |
|---|-------------------|
| Australian Exposure Standards (TWA;STEL): | No data available |
| OSHA's permissible exposure limits (PEL's): | No data available |
| ACGIH threshold limit values (TLV's): | No data available |

Engineering controls Handle in accordance to general industrial hygiene and chemical safety practice.

Personal protective equipment (PPE)

| | |
|-------------------------|---|
| Eye Face Protection: | Chemical safety shield, glasses or goggles approved under NIOSH (US) or EN166 (EU). Have eye washing facilities readily available where eye contact can occur. |
| Skin Protection: | Suitable protective gloves. |
| Body Protection: | Lab coat or protective chemical suit. Protective equipment must be selected in accordance to the amount of dangerous substance within the specific workplace. |
| Respiratory Protection: | Use an appropriate dust mask. Use N95 (US) or type P1 (EN143) dust mask where dust level is a nuisance. Appropriate respirator approved under NIOSH (US) or CEN (EU). |

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Off-white to beige powder

| | |
|--|----------------------------------|
| Odour | Odorless |
| Odour threshold | No data available |
| pH (0.05 g/L) | 3.75 – 5.75 (solvent dependant). |
| Melting point | 125 - 127°C |
| Initial boiling point/boiling range | No data available |
| Flash point (closed cup) | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Flammable limits (upper %) | No data available |
| Flammable limits (lower %) | No data available |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | No data available |
| Solubility | Soluble in DMSO |
| Partition coefficient (n-octanol/water) | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | No data available. |
| Chemical stability | Stable under normal conditions of use and recommended storage conditions. |
| Possibility of hazardous reactions | No data available. |
| Conditions to avoid | Moist air. |
| Incompatible materials | Strong bases, strong oxidizing agents. |
| Hazardous decomposition products | Carbon dioxide and carbon monoxide |

11. TOXICOLOGICAL INFORMATION

| | | |
|--|---|--------------------|
| Acute toxicity | LD ₅₀ (Oral, Rat)(mg/Kg): | No data available. |
| | LD ₅₀ (Oral, Mouse)(mg/Kg): | >10,000 |
| | LD ₅₀ (Dermal, Rabbit)(mg/Kg): | No data available. |
| Skin corrosion/irritation | No data available | |
| Serious eye damage/irritation | No data available | |
| Respiratory or skin sensitisation | No data available | |
| Germ cell mutagenicity | No data available | |

| | | |
|--|--|--|
| Carcinogenicity | NTP: | No |
| | IARC: | No |
| | Z List: | No |
| | OSHA Reg: | No |
| Reproductive toxicity | No data available. | |
| Specific target organ toxicity (STOT) | Single Exposure: | Inhalation - may cause respiratory irritation. |
| | Repeated Exposure: | No data available |
| Aspiration hazard | No data available | |
| Target organs | Respiratory tract, skin and eyes. | |
| Medical conditions aggravated by exposure | No data available | |
| Routes of entry | Respiratory organs, mouth, skin and eyes. | |
| Symptoms associated with overexposure | Irritation, itching, gastrointestinal upset. | |
| NIOSH/RTECS No. | AMS8440000 | |

The toxicological properties of this product have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

| | |
|--------------------------------------|-------------------|
| Ecotoxicity | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| Other adverse effects | No data available |

13. DISPOSAL CONSIDERATIONS

| | |
|-----------------------------------|---|
| Disposal procedure | Dispose in accordance with all applicable government, state, and environmental chemical safety practices. |
| EPA hazardous waste number | No data available |

14. TRANSPORT INFORMATION

| | |
|---------------------------------------|--|
| UN number | ADG: Non-Dangerous Goods IMDG: Non-Dangerous Goods IATA: Non-Dangerous Goods |
| Proper shipping/technical name | Non-Dangerous Goods. |
| Hazard Class | No data available |
| Packing group | No data available |
| Environmental hazards | No data available |
| Special precautions | No data available |

15. REGULATORY INFORMATION

Notification Status

Australia (AICS): Not determined

New Zealand (NZIoC): Not determined

USA (TSCA): Not determined

SARA TITLE III: Section 302 (EHS) Ingredients: No
 Section 313 Ingredients: No
 Section 304 (EHS/CERCLA) Ingredients: No
 Section 311/312 Hazard: Acute health hazard

16. OTHER INFORMATION

| | | | | |
|--------------|---------------|-----------------------|-------------------|-----------------|
| HMIS Rating: | Health Hazard | Chronic Health Hazard | Flammability | Physical Hazard |
| | 2 | | 0 | 0 |
| NFPA Rating: | Health Hazard | Fire Hazard | Reactivity Hazard | Special Hazard |
| | 2 | 0 | 0 | |

Austratec Pty Ltd provides information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Austratec Pty Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Products manufactured by PhytoTechnology Laboratories and supplied by Austratec Pty Ltd are NOT to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.