UN GHS REVISION 7

# Safety Data Sheet
# AURAMINE-RHODAMINE

Version 1.0, Date of issue: 2026-08-18

## SECTION 1: Identification

### 1.1 GHS Product identifier

| | |
|---|---|
| **Product name** | AURAMINE-RHODAMINE |
| **Product number** | AURH-500M |
| **Brand** | Hurstchem |

### 1.3 Recommended use of the chemical and restrictions on use

Laboratory Reagent

### 1.4 Supplier's details

| | |
|---|---|
| **Name** | Hurst Scientific |
| **Address** | 2 Transit Place, 6112 Forrestdale WA, Australia |
| **Telephone** | 1300 778 068 |
| **email** | sales@hurstscientific.com.au |

### 1.5 Emergency phone number

Australian Poisons Information Centre 13 11 26
Australian Emergency Services 000

## SECTION 2: Hazard identification

**General hazard statement**

Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: UN GHS revision 7**

- Skin Corrosion/Irritation, Cat. 1B
- Serious Eye Damage/Irritation, Cat. 1
- Germ Cell Mutagenicity, Cat. 2
- STOT - Repeated Exposure, Cat. 2
- Carcinogenicity, Cat. 2
- Acute Toxicity (Inhalation), Cat. 3
- Acute Toxicity (Dermal), Cat. 4
- Acute Toxicity (Oral), Cat. 4

### 2.2 GHS label elements, including precautionary statements

**Pictograms**

1. Corrosion; 2. Skull and crossbones; 3. Health hazard

**Signal word**

**Danger**

**Hazard statement(s)**

| | |
|---|---|
| **H314** | Causes severe skin burns and eye damage. |
| **H341** | Suspected of causing genetic defects. |
| **H373** | May cause damage to organs through prolonged or repeated exposure. |
| **H351** | Suspected of causing cancer. |
| **H331** | Toxic if inhaled. |
| **H312** | Harmful in contact with skin. |
| **H302** | Harmful if swallowed. |

**Precautionary statement(s)**

| | |
|---|---|
| **P201** | Obtain special instructions before use. |
| **P202** | Do not handle until all safety precautions have been read and understood. |
| **P260** | Do not breathe dust/fume/gas/mist/vapours/spray. |
| **P264** | Wash hands thoroughly after handling. |
| **P270** | Do not eat, drink or smoke when using this product. |
| **P271** | Use only outdoors or in a well-ventilated area. |
| **P280** | Wear protective gloves/protective clothing/eye protection/face protection. |
| **P301+P312** | IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. |
| **P301+P330+P331** | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| **P302+P352** | IF ON SKIN: Wash with plenty of water. |
| **P303+P361+P353** | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| **P304+P340** | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| **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/attention. |
| **P310** | Immediately call a POISON CENTRE/doctor. |
| **P314** | Get medical advice/attention if you feel unwell. |
| **P321** | Specific treatment (see supplemental first-aid instructions on this label). |
| **P362+P364** | Take off contaminated clothing. And wash it before reuse. |
| **P363** | Wash contaminated clothing before reuse. |
| **P403+P233** | Store in a well-ventilated place. Keep container tightly closed. |
| **P405** | Store locked up. |
| **P501** | Dispose of contents/container in accordance with local regulations. |

### 2.3 Other hazards

No information available on PBT / vPvB status or endocrine disrupting properties.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous components**

| Component | Concentration |
|---|---|
| **Phenol (CAS: 108-95-2)** | **8%** |
| **CLASSIFICATIONS:** Germ Cell Mutagenicity, Cat. 2; Acute Toxicity (Inhalation), Cat. 3; Acute Toxicity (Dermal), Cat. 3; Acute Toxicity (Oral), Cat. 3; STOT – Repeated Exposure, Cat. 1B; Skin Corrosion/Irritation, Cat. 1B. **HAZARDS:** H341 - Suspected of causing genetic defects; H331 - Toxic if inhaled; H311 - Toxic in contact with skin; H301 - Toxic if swallowed; H373 - May cause damage to organs through prolonged or repeated exposure; H314 - Causes severe skin burns and eye damage. | |
| **Auramine O (CAS: 2465-27-2)** | **1%** |
| **CLASSIFICATIONS:** Acute Toxicity (Oral), Cat. 4; Carcinogenicity, Cat. 2; Serious Eye Damage/Irritation, Cat. 2A. **HAZARDS:** H302 - Harmful if swallowed; H351 - Suspected of causing cancer; H319 - Causes serious eye irritation. | |
| **Glycerol (CAS: 56-81-5)** | **50%** |
| **Water (CAS: 7732-18-5)** | **Remainder** |
| **Rhodamine B (C.I. Food Red 15) (CAS: 81-88-9)** | **0.5%** |
| **CLASSIFICATIONS:** Acute Toxicity (Oral), Cat. 4; Serious Eye Damage/Irritation, Cat. 1. **HAZARDS:** H302 - Harmful if swallowed; H318 - Causes serious eye damage. | |

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

**Eye contact**

Flush eyes with copious amounts of water for at least 15 minutes. Seek immediate medical attention.

**Skin contact**

Immediately remove all contaminated clothing, footwear and jewellery. Flush the affected area with copious amounts of water for at least 15 minutes. Seek immediate medical attention. Wash contaminated clothing before re-use.

**Inhalation**

Evacuate to fresh air immediately. If unconscious, place in recovery position and provide artificial respiration if breathing ceases. Seek medical attention.

**Ingestion**

DO NOT induce vomiting. Wash mouth out with copious amounts of water and seek medical attention.

**First-aid facilities**

Eye wash station, safety shower and First Aid kit.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important symptoms and effects are described in Section 2 (hazard statements) and Section 11 (toxicological information).

### 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically. For advice, contact the Poisons Information Centre (Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

The product itself is non-combustible. Use an extinguishing medium suitable for the surrounding fire. Do not allow water to enter containers.

### 5.2 Specific hazards arising from the chemical

The product is non-combustible. Heating or fire may produce irritating, poisonous or corrosive gases. Containers may rupture when heated.

### 5.3 Special protective actions for fire-fighters

Fire fighters should wear self-contained breathing apparatus (SCBA) operated in positive-pressure mode and a chemical splash suit; a structural firefighter's uniform provides only limited protection against these materials. Fight the fire from a safe location.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin and eyes. Wear suitable protective equipment (see Section 8). Evacuate non-essential personnel from the area.

### 6.2 Environmental precautions

Prevent the spill from entering drains, sewers and waterways. In the event of a major spill, contain the material and notify the relevant authorities.

### 6.3 Methods and materials for containment and cleaning up

Contain the spill and prevent entry into drains, sewers and waterways. Absorb with inert absorbent material (e.g. sand, vermiculite or earth) and transfer to a suitable, labelled container for disposal. Rinse the affected area with water. Dispose of in accordance with Section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe mists or vapours. Wear appropriate protective clothing to avoid any contact.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Keep containers tightly closed and upright when not in use. Store away from incompatible materials (see Section 10). Inspect containers regularly for damage or leaks.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Phenol** (CAS: 108-95-2)
AU/SWA (AU): TWA: 1 ppm (4 mg/m³); Notes: Sk

**Auramine O** (CAS: 2465-27-2)
AU/SWA (AU): No occupational exposure limit established.

**Glycerol** (CAS: 56-81-5)
AU/SWA (AU): TWA: 10 mg/m³; Notes: (a)

**Water** (CAS: 7732-18-5)
AU/SWA (AU): No occupational exposure limit established.

**Rhodamine B (C.I. Food Red 15)** (CAS: 81-88-9)
AU/SWA (AU): No occupational exposure limit established.

### 8.2 Appropriate engineering controls

Ensure an adequate ventilation or exhaust system is in place.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standard AS 1337 and be selected and used in accordance with AS 1336.

#### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### Hand protection

Use occupational protective gloves complying with AS 2161 (Selection, Use and Maintenance).

#### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

| | |
|---|---|
| Physical state | Liquid |
| Appearance | Yellow Liquid |
| Colour | No data available |
| Odour | Odourless |
| Odour threshold | No data available |
| Melting point/freezing point | No data available |
| Boiling point or initial boiling point and boiling range | Approx. 100°C |
| Flammability | No data available |
| Lower and upper explosion limit/flammability limit | No data available |
| Flash point | No data available |
| Explosive properties | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Oxidising properties | No data available |
| pH | No data available |
| Kinematic viscosity | No data available |
| Solubility | Soluble (Water) |
| Partition coefficient n-octanol/water (log value) | No data available |
| Vapour pressure | No data available |
| Evaporation rate | No data available |
| Density and/or relative density | No data available |
| Relative vapour density | No data available |
| Particle characteristics | No data available |
| Supplemental information regarding physical hazard classes | No data available |
| Further safety characteristics (supplemental) | No data available |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Non-reactive under recommended conditions for use and storage.

### 10.2 Chemical stability

Stable under recommended conditions for use and storage.

### 10.3 Possibility of hazardous reactions

Polymerisation will not occur.

### 10.4 Conditions to avoid

Temperature extremes, sources of ignition and direct sunlight.

### 10.5 Incompatible materials

Strong oxidisers, strong alkalis, combustibles materials, Nitrates and acids.

### 10.6 Hazardous decomposition products

Toxic gases may evolve.

## SECTION 11: Toxicological information

### Information on toxicological effects

**Acute toxicity**

Harmful if swallowed; Harmful in contact with skin; Toxic if inhaled; Oral $LD_{50}$: 317 mg/kg; Dermal $LD_{50}$: 669 mg/kg; 316 mg/m3 (rat, LC50 inhalation) (Phenol)

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

Not expected to be a respiratory or skin sensitiser.

**Germ cell mutagenicity**

Suspected of causing genetic defects.

**Carcinogenicity**

Suspected of causing cancer.

**Reproductive toxicity**

Not considered to be toxic to reproduction.

**Specific target organ toxicity (STOT) - single exposure**

Not expected to cause toxicity to a specific target organ.

**Specific target organ toxicity (STOT) - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

Not expected to be an aspiration hazard.

## SECTION 12: Ecological information

**Toxicity**

Phenol is toxic for aquatic organisms. Fish Toxicity; Rainbow Trout LC50: 5.4mg/l/96h Daphnia Toxicity; Daphnia magna EC50: 56 mg/l /48h Algal Toxicity; Sc. quadricauda IC5: 7.5 mg/l/8d Bacterial Toxicity; Ps. Putida EC5: 64 mg/l /16h

**Persistence and degradability**

Readily biodegradable. Phenol degrades rapidly in aerobic screening tests: 85% of theoretical BOD removed in a 14-day MITI test, and complete removal within one day using activated sludge or soil inocula

**Bioaccumulative potential**

Not expected to bio-accumulate

**Mobility in soil**

Not available on this mixture

**Results of PBT and vPvB assessment**

No data available

**Endocrine disrupting properties**

No data available

**Other adverse effects**

No data available

## SECTION 13: Disposal considerations

**Product disposal**

Dispose of in accordance with local authority guidelines. Empty containers may still represent a hazard.

**Packaging disposal**

Dispose of in accordance with local authority guidelines.

**Waste treatment**

Dispose of in accordance with local authority guidelines.

**Sewage disposal**

Do not contaminate drains and waterways.

**Other disposal recommendations**

Nil.

## SECTION 14: Transport information

**ADG (Australian Dangerous Goods Code, 7th Edition)**

| | |
|---|---|
| **UN Number** | UN2821 |
| **Proper shipping name** | PHENOL SOLUTION |
| **Transport hazard class** | 6.1 |
| **Packing group** | II |
| **Hazchem code** | 2X |
| **Environmental hazards** | Not classified |

**IMDG (International Maritime Dangerous Goods Code)**

| | |
|---|---|
| **UN Number** | UN2821 |
| **Proper shipping name** | PHENOL SOLUTION |
| **Transport hazard class** | 6.1 |
| **Packing group** | II |
| **Marine pollutant** | No |

**IATA (International Air Transport Association Dangerous Goods Regulations)**

| | |
|---|---|
| **UN Number** | UN2821 |
| **Proper shipping name** | PHENOL SOLUTION |
| **Transport hazard class** | 6.1 |
| **Packing group** | II |

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations specific for the product in question**

**Phenol (CAS: 108-95-2)**

Australia SUSMP — Poison Schedule: Schedule 6

**Auramine O (CAS: 2465-27-2)**

Australia SUSMP — Poison Schedule: Not Scheduled (NS)

**Glycerol (CAS: 56-81-5)**

Australia SUSMP — Poison Schedule: Not Scheduled (NS)

**Water (CAS: 7732-18-5)**

Australia SUSMP — Poison Schedule: Not Scheduled (NS)

**Rhodamine B (C.I. Food Red 15) (CAS: 81-88-9)**

Australia SUSMP — Poison Schedule: Not Scheduled (NS)

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out for this product.

## SECTION 16: Other information

### 16.1 Further information/disclaimer

**References**


1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (June 2023).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013).
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code), Volume 1, Edition 7.9 (2023).
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).


### 16.2 Preparation information

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (June 2023). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used. Copyright © 2026 Hurst Scientific