

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Material Name:** Chromotrope 2R, C.I. 16570  
**Catalogue Number:** C090; C0901; C0905.  
**Other Names:** Acid Red 29, C.I. 16570; 4,5-Dihydroxy-3-phenylazo-2,7-naphthalenedisulfonic acid; disodium salt.  
**Recommended Use:** Stain for electron microscopy.

**Supplier Name:** ProSciTech  
**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia  
**Telephone Number:** (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)  
**Emergency Contact:** (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)

## SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:**  
 Not classified as hazardous according to criteria for Classifying Hazardous Substances [NOHSC:1008].  
**Hazardous and/or Dangerous Nature:**  
 NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.  
**Risk Phrases:**  
 Not available.  
**Safety Phrases:**  
 S24/25: Avoid contact with skin and eyes.

*Refer to Section 15 for Poisons Schedule.*

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**Pure Substance (Proportion 100%):**  
**Chemical Identity:** Chromotrope 2R.  
**Common Name(s):** Acid Red 29, C.I. 16570; 4,5-Dihydroxy-3-phenylazo-2,7-naphthalenedisulfonic acid; disodium salt.  
**CAS Number:** 4197-07-3

## SECTION 4 - FIRST AID MEASURES

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. Do NOT induce vomiting. NEVER give anything by mouth to an unconscious person. Get medical attention if irritation or symptoms appear.  
**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.  
**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.  
**Skin Contact:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if irritation develops or persists.  
**First Aid Facilities:** Eyebath/eyewash, Safety shower & general washroom facilities.  
**Medical Attention & Special Treatment:**  
 Treat symptomatically and supportively.

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**  
 In case of fire use water spray to cool fire expose containers. Use water spray, dry chemical, carbon dioxide, or appropriate foam.  
**Hazards from Combustion Products:**  
 During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.  
**Precautions for Fire Fighters:**  
 As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear.  
**Hazchem Code:** Not available.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES****Containment & Clean up:**

Use proper personal protective equipment as indicated in Section 8.  
Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

**SECTION 7 - HANDLING & STORAGE****Precautions for Safe Handling:**

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Precautions for Safe Storage:**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**National Exposure Standards:** No exposure standard allocated.

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

**Personal Protective Equipment:**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**

<b>Appearance:</b>	Dark brown to red powder.
<b>Odour:</b>	None reported.
<b>pH:</b>	Not available.
<b>Vapour pressure (mm of Hg at °C):</b>	Not available.
<b>Vapour density:</b>	Not available.
<b>Boiling point/range (°C):</b>	Not available.
<b>Freezing/melting point (°C):</b>	0°C.
<b>Solubility:</b>	Not available.
<b>Specific gravity or density:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Flammable (explosive) limits:</b>	Not available.
<b>Ignition temperature:</b>	Not available.
<b>Molecular Weight:</b>	468.35
<b>Chemical Formula:</b>	C <sub>16</sub> H <sub>10</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub> S <sub>2</sub>

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical stability:** Stable under normal conditions of use.

**Conditions to avoid:** Incompatible materials.

**Incompatible Materials:** Strong oxidisers.

**Hazardous Decomposition Products:**

Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

**Hazardous Reactions:** Has not been reported.

**SECTION 11 - TOXICOLOGICAL INFORMATION****Exposure and Health Effects:**

May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated. Effects may be delayed.

**Ingestion:**

May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. The toxicological properties of this substance have not been fully investigated.

**Inhalation:**

May cause respiratory tract irritation. The toxicological properties of this material have not been fully investigated. Can produce delayed pulmonary oedema.

**Eye Contact:**

May cause eye irritation. May cause chemical conjunctivitis.

**Skin Contact:**

May cause skin irritation.

**Human/Animal data:** No information available.

**Carcinogenic Category:** Not classified as a Carcinogen by the IARC.

**Other Carcinogenic Information:** No information available.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Mobility:** No information available.

**SECTION 13 - DISPOSAL CONSIDERATIONS****Disposal Methods:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14 - TRANSPORT INFORMATION**

**UN Number:** Not regulated.

**UN Proper Shipping Name:** Not regulated.

**Class and Subsidiary risk:** Not regulated.

**Packing Group:** Not regulated.

**Special Precautions for User:** Not available.

**Hazchem Code:** Not available.

**SECTION 15 - REGULATORY INFORMATION**

**Poison Schedule Number:** None Allocated.

**SECTION 16 - OTHER INFORMATION**

**Date of preparation of MSDS:** 23 January 2012

**Comments:****List of Publications referenced when creating this MSDS;**

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.
- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd Edition: National Occupational Health and Safety Commission.
- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997).
- IATA Dangerous Goods Regulations.
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
- Australia Standard for the Uniform Scheduling of Drugs and Poisons [SUSPD] (Australian Government Department of Health and Ageing).

*This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.*

**... End of MSDS ...**