

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Rose Bengal, certified, C.I. 45440.
Catalogue Number: C137, C1375.
Other Names: Acid Red 94; CI 45440; 4,5,6,7-tetrachloro-2',4',5',7'-tetraiodofluorescein disodium salt, C₂₀H₂Cl₄I₄Na₂O₅.
Recommended Use: Used as a biological stain/dye for 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:
 Not available.

Refer to Section 15 for Poisons Schedule.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Pure Substance (Proportion 100%):

Chemical Identity: C₂₀H₂Cl₄I₄Na₂O₅
Common Name(s): Acid Red 94; CI 45440; 4,5,6,7-tetrachloro-2',4',5',7'-tetraiodofluorescein disodium salt, Rose Bengal, certified, C.I. 45440.
CAS Number): 632-69-9

Mixture Substance:

<i>Ingredients</i>	<i>Cas Number(s)</i>	<i>Proportion (%)</i>
Rose Bengal, certified, C.I. 45440	632-69-9	100

SECTION 4 - FIRST AID MEASURES

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
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: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
Skin Contact: Get medical aid if irritation develops or persists. Wash clothing before reuse. Flush skin with plenty of soap and water.
First Aid Facilities: Eyebath/eyewash & Safety shower.
Medical Attention & Special Treatment:
 Treat symptomatically and supportively.
Additional Information:
 The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
 Use water spray, dry chemical, carbon dioxide, or chemical foam.
Hazards from Combustion Products:
 Chlorine, carbon monoxide, carbon dioxide, sodium oxide, iodine.
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: 3X

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Use proper personal protective equipment as indicated in Section 8.

Containment & Clean up:

Clean up spills immediately, observing precautions in the Protective Equipment Section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. 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:

Keep in a tightly sealed container in a cool, dry area away from incompatible materials, sources of ignition. Avoid generating dust.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: No exposure standard allocated.

Biological Limit Values: No biological limit 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

Appearance:	Red-brown coloured powder.
Odour:	Not available.
pH:	Not available.
Vapour pressure (mm of Hg at °C):	Not available.
Vapour density:	Not available.
Boiling point/range (°C):	Not available.
Freezing/melting point (°C):	Not available.
Solubility:	Not available.
Specific gravity or density:	Not available.
Flash Point:	Not available.
Flammable (explosive) limits:	Not available.
Ignition temperature:	Not available.
Additional Information:	Not available.

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

Conditions to avoid: Incompatible materials, ignition sources, dust generation.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products:

Chlorine, carbon monoxide, carbon dioxide, sodium oxide, iodine.

Hazardous Reactions: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:

Appearance: Red – brown powder. The toxicological properties of this material have not been fully investigated.

May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None known.

Ingestion:

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Eye Contact:

May cause eye irritation.

Skin Contact:

May cause skin irritation.

Human/Animal data: Not available.

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

Other Carcinogenic Information: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence and degradability: Not available.

Mobility: Not available.

Additional Information: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of in accordance with Federal, State and Local regulations.

Special Precautions/Additional Informational:

Not available.

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: 3X

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None Allocated.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: October 10

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 2nd 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.

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