

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) Name: Ruthenium Red. Catalogue # C075.

Other Names:

Recommended Use: Biological Stain.

Supplier Name: ProSciTech

Postal Address: PO Box 111, Thuringowa Central Qld. 4817 Australia

Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia

Telephone Number: (07) 4773 9444

Fax Number: (07) 4773 2244

Emergency Contact: (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of NOHSC.

Risk Phrases:

Safety Phrases:

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE:

Chemical Identity: Ruthenium Red.

Common Name(s):

CAS Number(s): 72379-21-6

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Ruthenium Red	72379-21-6	91.5
Chloride Oxide, Ammoniated Hydrate, Ruthenium Red Hydrate.	111	

SECTION 4 - FIRST AID MEASURES

Swallowed: If irritation occurs/persists seek medical attention.

Eye: Flush eyes for at least 15 minutes with plenty of water. If discomfort occurs/persists seek medical attention.

Skin: Flush skin with plenty of water for at least 15 minutes. If discomfort occurs/persists seek medical attention.

Inhaled: Remove person to fresh air. If discomfort occurs/persists seek medical attention.

First Aid Facilities: Safety shower, eyebath.

Medical Attention & Special Treatment:

ADDITIONAL INFORMATION:

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, foam, carbon dioxide, or appropriate medium to fight primary source of fire.

Hazards from Combustion Products: Carbon monoxide, carbon dioxide, nitrogen dioxide, ammonia and chlorine vapours.

Precautions for Fire Fighters: Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Hazchem Code:

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Containment and clean up: Wear appropriate protective equipment, refer to Section 8. Sweep up or soak up solution and place in a sealed container, taking care to avoid raising dust. Ventilate and wash spill site after pickup is complete.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:	Avoid contact with eyes and skin. Avoid breathing dust. Use compatible chemical-resistant gloves. Wash hands thoroughly after handling.
Conditions for Safe Storage:	Store in a cool, dry place in a tightly sealed container.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards:	No exposure standard allocated.
Biological Limit Values:	No biological limit allocated.
Engineering Controls:	Use only in a well-ventilated area.
Personal Protective Equipment:	Use a chemical cartridge respirator for dust, mist, fume and radionuclide or self-contained breathing apparatus with full-face piece. Use chemical-resistant rubber/neoprene gloves, safety glasses/goggles, lab coat/apron, flame and chemical resistant protective clothing.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Dark brown powder.
Odour:	Ammonia odour.
pH:	Not Available.
Vapour pressure:	Not Available.
Vapour density:	Not Available.
Boiling point/range:	Not Available.
Freezing/melting point:	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:	Molecular weight: 858.35

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	High temperatures.
Incompatible Materials:	
Hazardous Decomposition Products:	Ammonia and chlorine vapours.
Hazardous Reactions:	

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and chronic health effects:	May cause irritation of the respiratory system.
Possible routes of exposure:	Inhalation, skin and ingestion.
Range of effects following exposure:	Eyes: Irritation. Skin: Irritation. Ingestion: May cause irritation, nausea diarrhea. Inhalation: Irritation and difficulty breathing.
Dose likely to cause injury:	
Delayed effects:	May cause irritation of the respiratory system.
Relevant negative data:	

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	
Persistence and degradability:	
Mobility:	
Additional Information:	

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:	Dispose of in accordance with Federal, State and Local Regulations.
Special Precautions:	

SECTION 14 - TRANSPORT INFORMATION

UN Number:

UN Proper Shipping Name:

Class and Subsidiary risk:

Packing Group:

Special Precautions for User:

Hazchem Code:

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None allocated

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: 10 April 2008
