

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Sodium tungstate.
Catalogue Number: C142
Other Names: Tungsten, soluble compounds (as W).
Recommended Use: Negative stain in 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:
 Hazardous according to criteria of Hazardous Substances Information System [HSIS Worksafe Australia].

Hazardous and/or Dangerous Nature:
 HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

Risk Phrases:
 R22 Harmful if swallowed.
 R36/38 Irritating to eyes and skin.

Safety Phrases:
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S37/39 Wear suitable gloves and eye/face protection.

Refer to Section 15 for Poisons Schedule.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Pure Substance (Proportion 100%):

Chemical Identity: Sodium Tungstate
Common Name(s): Tungsten, soluble compounds (as W)
CAS Number: 10213-10-2

Mixture Substance:

<i>Ingredients</i>	<i>Cas Number(s)</i>	<i>Proportion (%)</i>
Tungsten, soluble compounds (as W)	7440-33-7	100

SECTION 4 - FIRST AID MEASURES

Ingestion: Remove dentures if any. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not re-enter the mouth and throat. NEVER give an unconscious person anything to ingest. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate attention.

Eye Contact: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.

Skin Contact: If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. For serious skin contact - Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

First Aid Facilities: Eyebath/eyewash, Safety shower & general washroom facilities.

Medical Attention & Special Treatment:

Treat symptomatically and supportively.

Additional Information:

Not available.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Product is non-flammable – use suitable extinguishing media for the surrounding fire.

Hazards from Combustion Products:

No hazards are known – take necessary precautions for surrounding fire and hazards.

Precautions for Fire Fighters:

Wear appropriate protective equipment to fight surrounding fire.

Hazchem Code: Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Wear appropriate protective equipment while cleaning up the spill – refer to Section 8.

Containment & Clean up:

SMALL SPILL:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

LARGE SPILL:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow the water to evacuate through the sanitary system.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:

DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Precautions for Safe Storage:

No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: Tungsten, soluble compounds (as W) CAS No. 7440-33-7:

TWA 1mg/m³

STEL 3mg/m³

Biological Limit Values:

No biological limit allocated.

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment:

Splash goggles. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves (impervious).

PERSONAL PROTECTION IN CASE OF A LARGE SPILL:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:

Solid.

Odour:

Not available.

pH:

Not available.

Vapour pressure (mm of Hg at °C):

Not available.

Vapour density:

Not available.

Boiling point/range (°C):

Decomposes at 698°C.

Freezing/melting point (°C):

Not available.

Solubility:

Easily soluble in cold water.

Specific gravity or density:

3.24 (water = 1)

Flash Point:

Not available.

Flammable (explosive) limits:

Not available.

Ignition temperature:

Not available.

Chemical Formula:

Na₂WO₄.2H₂O

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.
Conditions to avoid: Unknown, use caution if a hazardous situation occurs.
Incompatible Materials: None known – use caution if a reaction does occur.
Hazardous Decomposition Products:
 None known – use caution if a reaction does occur.
Hazardous Reactions: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:
 This product may irritate eyes and skin upon contact. There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.
Ingestion:
 Slightly dangerous to dangerous in case of ingestion.
Inhalation:
 Slightly dangerous to dangerous in case of inhalation.
Eye Contact:
 Slightly dangerous to dangerous in case of eye contact (irritant).
Skin Contact:
 Slightly dangerous to dangerous in case of skin contact (irritant).
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:
 Recycle by following local, state and federal 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: Not available.

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None Allocated.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: June 11
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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