



MATERIAL SAFETY DATA SHEET

1. Identification of Material and Supplier

Product Name	Chemical Sharpener		
Part Numbers	PC16CS		
Other Names	Sodium Nitrite		
Recommended Use	Chemical sharpening of tungsten electrodes		
Supplier's Name	Independent Wholesale Welding Supply		
Address	Unit 2/170 Power Street, Glendenning, NSW. 2761		
All mail to:	PO Box 284 Doonside NSW 2767		
Telephone	61 2 8834 2400	Facsimile	61 2 8834 2498
Technical Support	61 2 8834 2400	E-mail Address iwws@iwws.net	
Web	www.iwws.net		

2. Hazards Identification

Hazardous Classification

This product is Hazardous according to the criteria of the ASCC, is a DG Substance : UN 1500 Sodium Nitrite Class 5.1/6 PG III, is a Schedule 7 Poison according to the SUSDP, is not a flammable or combustible liquid according to AS 1940 and all components are listed on the AICS.

Risk Phrases R 8 Contact with combustible material may cause fire, R 25 Toxic if swallowed, R 36 Irritating to eyes, R 43 May cause sensitisation by skin contact . R 50 Very toxic to aquatic organisms.

Safety Phrases S 2 Keep out of reach of children, R 45 In case of accident or if you feel unwell, seek medical advice immediately (show label or this MSDS if possible), S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

3. Composition Information on Ingredients

Chemical name	CAS Number	Proportion
Sodium Nitrite	7632-00-1	100 %

4. First Aid Measures

4.1 Symptoms of Exposure by Route

Ingested	Ingestion of large amounts may cause nausea, vomiting, cyanosis, convulsions, lowered blood pressure, burns to mouth and stomach. Patient may lapse into a coma. Trivial amounts ingested incidental to normal handling will have little or minor effects although superficial burns may be inflicted on the lips and mouth.
Eyes	Fragments or crystals will cause moderate to severe eye irritation. May cause more severe damage unless promptly removed by flushing.
Skin	Will cause minor to moderate skin irritation.
Inhaled	Inhaled dusts will irritate the upper respiratory tract. Inhalation of high concentrations of dusts or vapour from molten material may cause severe effects similar to those shown above for ingestion.

4.2 First Aid Instructions

Ingested	Do not induce vomiting. Rinse mouth out with water. Give two 200 ml glasses of water to drink. If symptoms persist or if more than a trivial amount was ingested seek urgent medical assistance.
Eyes	Hold eyelids open and flush eyes with clean water for 15 minutes. Hold eyelids open and away from eye to ensure that the inside of the lids are carefully flushed clean. If symptoms persist or corneal damage is present seek prompt medical advice.
Skin	Remove contaminated clothing (under deluge shower if necessary). Wash affected area for 10 minutes with soap and water. Do not rub hard. Rinse well for a further 5 minutes and pat dry. If symptoms persist seek prompt medical advice.
Inhaled	Remove patient to fresh air. Loosen tight clothing and allow to rest. Treat for shock if required. Rinse mouth and nose with water. Provide artificial respiration if breathing stops. Unless recovery is prompt seek urgent medical advice.
First Aid	Provide normal industrial first aid facilities including eyewash stations and deluge Facilities showers, where appropriate, close to the area where product is in use.

Notes to Physician (for symptoms of over-exposure to this product see above)

Possible symptoms of Chronic Health Effects

Normal routes of exposure are by skin contact, inhalation of dusts or fumes and eye contact. See above for typical symptoms.

Possible aggravated pre-existing conditions

None reported.

Suggested treatment for acute symptoms, known antidotes

Provide supportive care and treatment based on the patient's reactions to the exposure. For further information contact the:

POISONS INFORMATION CENTRE 13 11 26

5. Fire Fighting Measures

5.1 Flammability and Explosion Hazards

Product will not burn but starts fire in contact with incompatible materials (see page 1). Assists burning making extinguishing difficult due to production of oxygen.

5.2 Hazardous Combustion Products

NO_x

5.3 Suitable Extinguishing Media

Use water in early stages. If large amount of product is involved be aware that sodium nitrite may melt and pool. Water may cause such molten product to scatter.

Hazchem Code: 1 [Z]

5.4 Precautions for Fire Fighters and Special Equipment

Wear SCBA and full turn out clothing.

6. Accidental Release Measures

6.1 Emergency Procedures – Spills and Leaks (See Section 13 for disposal considerations)

Prevent product entering drains or waterways. Wear full protective clothing including SCBA. Without creating dust clouds sweep or shovel up into plastic containers. Fit lids, label and place in a safe area to await disposal or recovery.

7. Handling and Storage

7.1 Handling Advice

Wear suitable protective clothing. Avoid contact with any combustible materials.

7.2 Storage Advice

Store in accordance with AS 4326-95 and local regulations. Keep away from any combustible materials . Keep storage temperature between 4 and 35 °C

8. Exposure Controls/ Personal Protection

8.1 Exposure Standards

The ASCC has not established a specific exposure standard for the substance. The general dusts standard is recommended:

Substance	TWA	STEL
Dusts	10 mg/m ³	n.est.

8.2 Engineering Control Methods

Provide local exhaust dust extractors and ventilators capable of minimising exposures in the workplace.

8.3 Personal Protective Equipment

Respiratory Protection	Not usually required. If dusts are present use good quality dust mask. Use SCBA for clean up of large spills; use welding inhalation protection when using the product.
Eye Protection	Wear safety glasses with sidepieces or full-face shield to AS 1337. If welding, use welder's helmet.
Gloves	Wear rubber or PVA gloves to AS 2161. Use thermal gauntlets if welding.
Clothing	Wear Tyvec or cotton coveralls fastened at the neck and wrists. Supplement with a welder's apron as appropriate

9. Physical and Chemical Properties

Appearance	White to yellow crystals	Odour	Odourless
Melting Point	271°C	Boiling Point	320°C Decomposes
Specific Gravity	2.17		
Flash Point	n.a	Flammability Limits	n.a.
Vapour Pressure	negligible	Vapour Density	n.d
Solubility (H₂O)	1.5 parts in cold water	AS1940 Class	n.a

Other Properties

May cause fires in contact with combustible materials. Incompatible with flammable or combustible liquids, reducing material, cyanides and organic matter. May explode if heated > 538°C or if in contact with cyanides.

10. Stability and Reactivity

See incompatible above. Under normal conditions of handling and use the product is stable.

11. Toxicological Information

Oral Human LD₅₀ 14 mg/m³/70 minutes. Inhalation Rat LC₅₀ 5.5 mg/m³/ 4 hours

12. Ecological Considerations

Very toxic to aquatic organisms.

13. Disposal Considerations

Disposal must be in accordance with local regulations for hazardous industrial wastes. Warn authorities of oxidiser nature of material.

14. Transport Information

Transport as UN 1500 Class 5.1/6.1 PG III in accordance with the ADG Code, the IATA DG Regulations or the IMDG Code as applicable to the mode of transport.

15. Regulatory Information

Label in accordance with the ADG Code with the phrase "UN 1500 Sodium Nitrite" and the class labels for Class 5.1 and 6 with the numeral obliterated or removed (to indicate 6 as the secondary hazard). Labeling under the SUSDP and the "National Code of Practice for the Labeling of Workplace Substance" [ASCC: 2012 (1994)] does not apply to this product as sold and marked as a DG substance as above.

16. Other Information

Disclaimer

No representative of IWWS any other person has the authority to alter or amend this MSDS or the information contained therein without the prior approval of IWWS management. Any alterations render this document invalid. The information presented in this MSDS is believed by Independent Wholesale Welding Supply to be accurate at the date shown and in accordance with information available to the Company. The circumstances and methods of using, handling, transporting or storing the material are beyond our control and persons using, handling, transporting or storing the product do so at their own risk. Independent Wholesale Welding Supply accept no liability for damage or injury arising from the use of the information contained herein.

Original Date New MSDS (Version 1.) to comply with National Code of Practice for the
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Data Sources used: in the preparation of this MSDS include: "Chempendium" and "MSDS plus Cheminfo" published in CD format by CCOHS Canada 2005 - 4. "TOMES" a CD database published by Micromedex, USA, "Hazardous Properties of Industrial Materials" Van Nostrand Reinhold NY, USA. "List of Designated Hazardous Substances" NOHSC 10005:1999, "National Exposure Standards" NOHSC 1003:1995.

Abbreviations used: n.d = not determined, n.a = not applicable, n.all =not allocated, SUSDP=Standard for the Uniform Scheduling of Drugs and Poisons, ADG=Australian Dangerous Goods Code, IATA =International Air Transport Association, (Dangerous Goods Regulations), IMDG=International Maritime Dangerous Goods (Code), ASCC=Australian Safety and Compensation Council. IARC=International Agency(for) Research (of) Cancer.