

MATERIAL SAFETY DATA SHEET

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: NiAg Composite Rod
Manufacturer: Weldcote Metals, Inc.
 842 Oak Grove Rd.
 Kings Mountain, NC 28086
Phone: 704-739-4115
Fax: 704-739-6116
E-Mail: info@weldcotemetals.com
Emergency: 704-739-4115

II. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation:

Important: This section covers the materials of which the products are manufactured. The fumes and gases produced during normal use of this product are covered in Section V. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

INGREDIENTS	CAS#	%RANGE	OSHA/PEL	ACGIH-TLV	CARCINOGENICITY	R-PHASE
			mg/m ³	mg/m ³		
Zinc	7440-66-6	35-45	5	5	NO	
Nickel	7440-02-0	9.0-11.0	1	1	NO	
Silicon	7440-21-3	.04-.25	5(as SiO ₂)	Not Regstrd.	NO	
Aluminum	7429-90-5	0.0.01	5(as fume)	Not Regstrd.	NO	
Copper	7440-50-8	45-50	.2(as fume)	.1(as fume)	NO	

III. HAZARD IDENTIFICATION

Effects of acute exposure: Unknown

Route(s) of entry: Unknown

Inhalation:

Reasonable expected decomposition products from normal use of these products include a complex of the oxides of the materials listed in Section II, as well as carbon monoxide, carbon dioxide, ozone, and nitrogen oxides (refer to "Characterization of Arc Welding Fume: available from the American Welding Society). The TLV for Manganese (0.02mg/m³) will be reached before the general limit for welding fumes of 5mg/m³ is reached. Monitor fumes for manganese levels. The only way to determine the true identity of the decomposition products is by sampling and analysis. The composition and quality of the fumes and gases to which a worker may be overexposed can be determined from a sample obtained from inside the welder's helmet, if worn, or in the worker's breathing zone. See ANSI/AWS F 1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes." Available from the American Welding Society.

IV. FIRST AID MEASURES

Inhalation: Remove victim to fresh air if effects occur.

Skin: Wash off with soap and plenty of water.

Eyes: Irrigate with water for several minutes.

Ingestion: Rinse mouth.

Note to physician: No particular advice.

V. FIRE FIGHTING MEASURES

Means of extinguishing: No danger requiring special measures.

Special protective equipment when fighting fire: None

VI. ACCIDENTAL RELEASE MEASURES

Individual precautions: Avoid dust formation/breathing dust.

Environment protection precautions: No particular indications.

Cleaning measures: Remove spoiled product mechanically.

VII. HANDLING AND STORAGE

Handling: With standard transportation equipment.

Storage: Store in a dry place in closed packages. Prevent contact with food.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures: Avoid fume inhalation. Avoid grinding dust inhalation.

Exposure limits: See section II.

Personal protection:

Respiratory protection: Use an air purifying dust respirator.

Hands protection: Wear appropriate gloves to prevent skin contact.

Eyes protection: Wear Brazing Glasses

Skin protection: Wear appropriate overalls to prevent skin or body contact.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: solid.

Odor: None.

pH: Non applicable.

Melting point: 1830-2730°F, 1000-1500°C

Relative density: 5.8 g/cm³

Solubility: Insoluble in water.

X. STABILITY AND REACTIVITY

Conditions to avoid: Not applicable.

Materials to avoid: Reacts with acids.

Hazardous decomposition products: Unknown.

XI. TOXICOLOGICAL INFORMATION

Effects of acute exposure

Local effects: Not applicable.

Inhalation: Not applicable for the product. For welding fumes see section III.

Ingestion: Not applicable.

Contact with skin: May cause dermatitis in sensitized individuals.

XII. ECOLOGICAL INFORMATION

About product: data are unknown.

About ingredients: data are unknown.

XIII. DISPOSAL CONSIDERATIONS

Product: For product elimination, consult recycling companies or appropriate local authority.

Package: May be disposed in approved landfills provided local regulations are observed.

XIV. TRANSPORT INFORMATION

International Regulations:

Land shipment: No hazard. Rail/Route (RID/ADR)

Sea shipment: No hazard.

Shipment by air: No hazard.

XV. REGULATORY INFORMATION

Label CEE: Not necessary.

Danger symbols and indications:

R-Phrases:

S-Phrases:

XVI. OTHER INFORMATION

The information in this document is believed to be correct as of the date issued. However, no warranty is expressed to be implied regarding the accuracy or completeness of this information. This information and product are furnished on the condition that the person receiving them shall make his own determinations as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

This Material Safety Data Sheet complies with the EC directives 91/155/EEC and 93/112/EEC

Including modifications 2001/58/EC

Complies with OSHA Communication Standard 29 CFR 1910.1200 and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499.