

## SAFETY DATA SHEET

### Hot Dipped ZAM® Sheet

#### Section 1: Identification: Hot Dipped ZAM® Sheet

WHEELING-NIPPON STEEL, INC.  
P.O. Box 635  
Penn & Main Street  
Follansbee, WV 26037

Emergency Telephone Number: (304) 527-4842  
Information Number: (304) 527-4825  
Date Prepared/Date of Revision: 2/7/20

#### Section 2: Hazard(s) Identification

**Potential Acute Health Effects:** Non-hazardous under normal use.

**Potential Chronic Health Effects:** Not available

#### Section 3: Composition/Information on Ingredients

C.A.S. Number	Chemical Name	OSHA PEL	ACGIH TLV	Weight/%
7439-89-6	Iron	10mg/m <sup>3</sup> (as Fe <sub>2</sub> O <sub>3</sub> fume)	5mg/m <sup>3</sup> (as Fe <sub>2</sub> O <sub>3</sub> fume)	Balance
7429-90-5	Aluminum	None	10mg/m <sup>3</sup>	0.01~0.3
7439-96-5	Manganese	5mg/m <sup>3</sup>	1mg/m <sup>3</sup> (as ZnO fume)	<0.5
7440-66-6	Zinc	5mg/m <sup>3</sup> (as ZnO fume)	5mg/m <sup>3</sup> (as ZnO fume)	0.2~4
7439-95-4	Magnesium	15mg/m <sup>3</sup> (as Oxide fume)	10mg/m <sup>3</sup>	0.01~0.1

#### Section 4: First Aid Measure

**INHALATION:** If acute overexposure to dust or fumes occurs, remove victim from the adverse environment and seek medical attention.

**SKIN CONTACT:** Remove contaminated clothing and wash area of contact thoroughly with soap and water. If irritation persists, seek medical attention.

**EYE CONTACT:** Flush immediately with running water for fifteen minutes occasionally lifting the lower and upper lids. If irritation persists, seek medical attention.

**INGESTION:** Seek medical attention, if necessary.

#### Section 5: Fire-fighting Measures

**FLASH POINT:** N/A

**EXTINGUISHING MEDIA:** N/A

**SPECIAL PROCEDURES:** Firefighters should wear equipment to protect against noxious fumes.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

## Section 6: Accidental Release Measures

Minimal problems with spills of this product would occur because of its solid form. However, if there is a spill of dust, clean up using methods which avoid dust generation and the use of water, such as vacuum. If airborne dust is generated during the clean-up, use an appropriate NIOSH-approved respirator.

## Section 7: Handling and Storage

Keep away from incompatibles such as oxidizing agents, acids, alkalis.  
Use good housekeeping and handling practices.

## Section 8: Exposure Controls/ Personal Protection

Wear NIOSH approved, dust/fume respirator when welding or burning.  
Use eye protection and protective gloves when handling.  
Use appropriate protective clothing when welding or burning.

## Section 9: Physical and Chemical Properties

Boiling Point: N/A	Density: Approx. 8g/cm <sup>3</sup>	Vapor Pressure: N/A
Vapor Density: N/A	Solubility in Water: N/A	Evaporation Rate: N/A
Melting Point: 1400°C Coating layer melting point: >300° C		
Appearance and Odor: Odorless solid with metal luster		

## Section 10: Stability and Reactivity

**Stability:** Stable – Yes **Conditions to avoid:** N/A  
**Incompatibility (materials to avoid):** Contact with strong acids or alkalis may produce hydrogen gas.  
**Hazardous Polymerization:** Will not occur. **Conditions to avoid:** N/A

## Section 11: Toxicological Information

**Health Hazards (acute and chronic):** N/A  
Not regulated by OSHA

**Carcinogenicity:** No

**Medical conditions generally aggravated by exposure:** N/A

**Signs and Symptoms of Exposure:** Irritation of the nose, eyes and skin. Nausea, coughing and wheezing upon prolonged exposure at excessive levels during welding or burning.

**Emergency and First Aid Procedures:** For overexposure to airborne fumes and particulates, remove exposed person to fresh air. Seek medical attention.

## Section 12: Ecological Information:

Not determined

**Section 13: Disposal Considerations**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Section 14: Transport Information**

**DOT Classification:** Not a DOT controlled material.

Identification: N/A

Special provisions for transport: N/A

**Section 15: Regulatory Information**

Not a regulated material.

**Section 16: Other Information**

**Disclaimer:** This information is taken from sources or based upon data believed to be reliable. Our objective in sending this information is to help you protect the health and safety of your personnel and to comply with the OSHA Hazard Communication Standard and Title III of the Superfund Amendment and Reauthorization Act of 1986. WHEELING-NIPPON STEEL, INC. makes no warranty as to the absolute correctness, completeness, or sufficiency of any of the foregoing, or that any additional or other measures may not be required under particular conditions.

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