



# MATERIAL SAFETY DATA SHEET

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**CHEMICAL NAME:** Ferro Nickel Magnesium  
**COMMON/TRADE NAME:** Fenimag Four  
**DATE:** January 1, 2014  
**SUPERSEDES:** January 1, 2011

## SECTION I — HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity)	CAS #	OSHA PEL	ACGIH TLV
Nickel*	7440-02-0	1mg/M <sup>3</sup> TWA	1.5mg/M <sup>3</sup> TWA (Inhalable Particles)
Magnesium	7439-95-4	15mg/M <sup>3</sup> TWA (Total Dust)	10mg/M <sup>3</sup> TWA (Inhalable Particles)
Iron	7439-89-6	15mg/M <sup>3</sup> TWA (Total Dust)	10mg/M <sup>3</sup> TWA (Inhalable Particles)

\*Contains 59% Nickel, a toxic chemical subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372.

## SECTION II — PHYSICAL/CHEMICAL CHARACTERISTICS

**Melting Point:** Approx. 2500° F      **Specific Gravity (H<sub>2</sub>O = 1):** Approx. 7.3  
**Volatility:** (Water) Nil      **Other:**  
**Appearance and Odor:** Silvery metallic appearance. No odor.

## SECTION III — REACTIVITY DATA

**Stability:** Unstable      **Conditions to Avoid:**  
 Stable    
**Incompatibility (Materials to Avoid):** Acids.  
**Hazardous Decomposition or Byproducts:** None known.  
**Hazardous Polymerization:** May Occur      **Conditions to Avoid:**  
 Will Not Occur

## SECTION IV — FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** N.A.  
**Extinguishing Media:** ]  
 ]  
 ]  
**Special Fire Fighting Procedures:** ] Not a fire or explosion hazard in normal conditions, however, when  
 ] used as a casting addition, some of the Magnesium may form a vapor  
 ] above the bath and, when mixed with air at high casting temperature,  
 ] may present an explosion hazard.  
**Unusual Fire and Explosion Hazards:** ]  
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