

MATERIAL SAFETY DATA SHEET

HEMALLOY CO. INC.

CHEMICAL NAME:

Ferro Nickel Magnesium Alloy

P.O. BOX 350

COMMON/TRADE NAME:

Fenimag Alloy

BRYN MAWR, PA 19010-0350

DATE:

February 10, 2014

Telephone: (610) 527-3700 Fax No.: (610) 527-3878 SUPERSEDES:

October 1, 2012

RECTION I — HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity)	CAS#	OSHA PEL	ACGIH TLV
Nickel*	7440-02-0	1mg/M³ TWA	1.5mg/M³ TWA (Inhalable Particles)
Magnesium	7439-95-4	15mg/M³ TWA (Total Dust)	10mg/M³ TWA (Inhalable Particles)
Iron	7439-89-6	15mg/M³ TWA (Total Dust)	10mg/M³ TWA (Inhalable Particles)

*Contains 60% to 65% Nickel, a toxic chemical subject to the reporting requirements of Section 313 of Title III of SARA and CFR Part 372.

SECTION II — PHYSICAL/CHEMICAL CHARACTERISTICS

Approx. 2500° F

Specific Gravity (H₂O = 1)

6.5 to 6.8

(Water) Nil

Other

Appearance and Odor

Silvery metallic appearance. No odor.

SECTION III - REACTIVITY DATA

Stability:

Unetable

Conditions to Avoid

Stable X

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

Plant Point (Method Used)

None.

Extinguishing Media

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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

Unusual Fire and Explosion Hazards

may present an explosion hazard.

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(OVER)

SECTION V - HEALTH HAZARD DATA

Route(s) of Entry

Inhalation. External exposure; skin contact.

Health Hazards (Acute and Chronic)

May cause irritation of the respiratory system. Also may

cause "Nickel Itch", a form of dermatitis.

Carcinogenicity

The National Toxicology Program annual report of 1991 lists Nickel as a confirmed human carcinogen of the nasal cavity, sinus and lungs. ACGIH does not classify Nickel metal as a human carcinogen.

Signs and Symptoms of Overexposure

Irritation of the respiratory system; skin itch.

Emergency and First Ald Procedures

On contact with skin, wash with soap and water. On contact with eyes, flush eyes thoroughly with water for 15 minutes. On inhalation of excessive dust, move to fresh air. Seek medical attention if problems persist.

SECTION VI - SPECIAL PROTECTION AND PRECAUTIONS

Ventilation and Engineering Controls

Appropriate ventilation.

Personal Protective Equipment

NIOSH-certified respirator, gloves and ANSI-approved eye

protection.

Bafe Handling, Use and Storage

Normal handling and storage.

Protective Measures During Repair & Maintenance

Use protective equipment listed above.

Other

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material is Released or Spilled Use normal clean-up procedures.

Waste Disposal Method

Follow federal, state and local regulations.

Other Precautions

Follow all other precautions and data noted herein.

NOTE: The data contained in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information herein is based on technical data that Chemalicy believes to be reliable. It is intended to be used by persons with technical skill. Prior to use, users shall conduct their own investigation(s) to determine the suitability of the information for their particular purpose, and appropriate warnings and safe handling procedures should be provided to handlers and users. Any use of this data must be determined by the user to be in accordance with federal, state and local laws and regulations. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents. Since conditions of use and suitability are beyond Chemalicy's control, any risks of use and suitability are therefore assumed by the user, and Chamalloy expressly disclaims all warranties, including warranties of merchantability and fitness for a particular purpose, express or implied, in respect to the use or suitability of the material.