

# MATERIAL SAFETY DATA SHEE

EMALLOY CO. INC.

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Telephone: (610) 527-3700 Fax No.: (610) 527-3878 **CHEMICAL NAME:** 

Nickel Magnesium Alloy

COMMON/TRADE NAME:

NiMag L/C "HP" and Chem-Mag Three Alloy February 1, 2014

SUPERSEDES:

DATE:

February 1, 2011

## **SECTION 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

10mq/M3 TWA

(Inhalable Particles) (Total Dust)

\*Contains 80% to 95% 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)

7.0 to 7.5

(Water) Nil

Other

Appearance and Odor

Silvery metallic appearance. No odor.

## **SECTION III — REACTIVITY DATA**

Unstable

Conditions to Avoid

Stable X

incompatibility (Malerials to Avoid)

None known.

Hazardous Decomposition or Byproducts

None known.

Heandous Polymerization:

May Occur

Conditions to Avoid

WIN Not Occur

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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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 batch and when mixed with air at high temperature, may

Unusual Fire and Explosion Hazards

present an explosion hazard.

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## SECTION V - HEALTH HAZARD DATA

Route(s) of Entry

External exposure; skin contact. Inhalation.

Health Hazards (Acute and Chronic)

May cause irritation of the respiratory system. May also cause "Nickel Itch", a form of dermatitis, and chronic overexposure could result in pneumoconiosis due to Nickel content.

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

Signa 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

protection.

NIOSH-certified respirator, gloves and ANSI-approved eye

Safe 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 procedure.

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 Chemalloy's control, any risks of use and suitability are therefore assumed by the user, and Chemalloy expressly disclaims all warranties, including warranties of merchantability and fitness for a perticular purpose, express or implied, in respect to the use or suitability of the material.