



MATERIAL SAFETY DATA SHEET

CHEMALLOY CO. INC.

P.O. BOX 350

BRYN MAWR, PA 19010-0350

Telephone: (610) 527-3700

Fax No.: (610) 527-3878

CHEMICAL NAME: Nickel Calcium

COMMON/TRADE NAME: NI-CAL®

DATE: September 15, 2012

SUPERSEDES: September 15, 2009

SECTION I — HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity)	CAS #	OSHA PEL	ACGIH TLV
Nickel*	7440-02-0	1mg/M ³ TWA	1.5mg/M ³ TWA (Inhalable Fraction)
Calcium	7440-70-2	15mg/M ³ TWA (Total Dust)	10mg/M ³ TWA (Inhalable Particles)

*Contains 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	2600° F	Specific Gravity (H₂O = 1)	7.5
Solubility	(Water) Nil	Other	
Appearance and Odor	Silvery metallic. No odor.		

SECTION III — REACTIVITY DATA

Stability:	Unstable	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	X

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

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

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. May also cause "Nickel Itch", a form of dermatitis, and pneumoconiosis from chronic over-exposure to the 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.

Signs and Symptoms of Overexposure

Irritation of the respiratory system; skin itch.

Emergency and First Aid Procedures

On contact with skin, practice proper hygiene. 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.

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 Chemalloy 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 particular purpose, express or implied, in respect to the use or suitability of the material.