

GOLD PLATING SERVICES

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME (as labeled) Bright Nickel Plate – Decorative Nickel Plate
CHEMICAL NAMES, COMMON NAMES Nickel Sulfate, Nickel Chloride

SUPPLIERS NAME & ADDRESS:

Gold Plating Services, Inc.
 378 North Main #112
 Kaysville, Utah 84037

24 hour emergency: (801) 629-0667 or (800) 633-8253
 Date of origin or last revision Jan 30, 2009

SECTION II HAZARDOUS INGREDIENTS

<u>CHEMICAL NAMES</u>	<u>RQ</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>EXPOSURE LIMIT</u>
Nickel Sulfate NiSO ₄	100 lbs	7786-81-4	>24%	TWA=1 mg/M ³ (as Ni ⁺²)
Nickel Chloride NiCl ₂	100 lbs	7718-54-9	5%	TWA=1 mg/M ³ (as Ni ⁺²)

SECTION III PHYSICAL PROPERTIES

VAPOR DENSITY (AIR=1)	NA	SPECIFIC GRAVITY	not known
VAPOR PRESSURE (mm Hg@20°C)	NA	MELTING POINT (degrees f)	NA
EVAPORATION RATE	NA	BOILING POINT (degrees f)	~ 212° F
SOLUBILITY IN WATER:	Very Soluble		
APPEARANCE AND ODOR:	Green solution slight acid odor.		

SECTION IV. FIRE AND EXPLOSION

FLASH POINT (F°) (METHOD USED);	NA (DOES NOT BURN)
AUTOIGNITION TEMPERATURE. F.	NA
FLAMMABLE LIMITS IN AIR VOLUME %	NA UPPER LIMIT NA
FIRE EXTINGUISHING MATERIALS:	Water Spray

SPECIAL FIREFIGHTING PROCEDURES. None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

SECTION V**HEALTH HAZARD INFORMATION****SYMPTOMS OF OVER-EXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE.****INHALATION:**

Upper respiratory tract irritation. Hypersensitive individuals may develop asthma bronchitis.

CONTACT WITH SKIN OR EYES:

Irritation, allergic sensitization in some individuals in the presence of heat and humidity.

ABSORBED THROUGH SKIN:

Same as inhalation and skin contact. (“Nickel Itch”)

SWALLOWED:

Nausea, gastrointestinal problems, unconsciousness.

HEALTH EFFECTS OR RISKS FROM EXPOSURE. EXPLAIN IN LAY TERMS. ATTACH EXTRA PAGE IF MORE SPACE IS NEEDED.

ACUTE.	Local:	Irritant, allergen, ingestion, inhalation - slight. Causes readily reversible changes which disappear after end of exposure.
	Systemic:	Ingestion or inhalation – slight. Causes readily reversible changes which disappear after end of exposure.
CHRONIC:	Local:	Irritant, allergen – slight to moderate. May involve both irreversible and reversible changes; not severe enough to cause death or permanent injury.
	Systemic:	Inhalation – moderate. May involve both irreversible and reversible changes; not severe enough to cause death or permanent injury.

FIRST AID: EMERGENCY PROCEDURES

EYE CONTACT:	Flush eyes with water (15 minutes or longer). Call Physician.
SKIN CONTACT:	wash thoroughly with soap and water. Call physician if symptoms appear.
INHALED:	Remove to fresh air. If breathing difficulties develop, call physician
SWALLOWED:	Induce vomiting if conscious , give emetic (1 tablespoon salt to a glass of warm water). Repeat until vomit fluid is clear. Call physician.

SUSPECTED CANCER AGENT? NO YES**SECTION VI -----REACTIVITY DATA-----**

STABILITY: Stable
 CONDITIONS TO AVOID: Do not mix with free cyanides.

INCOMPATIBILITY (MATERIALS TO AVOID): free cyanides

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Do not mix with free cyanides

SECTION VII SPILL, LEAK AND OTHER PROCEDURES.

Spill response procedures (include employee protection measures):

Absorb with sawdust or clay. Flush with water. Dispose of waste according to local, state and federal regulations. Waste material may contain recoverable nickel.

For employee protection, see Section VIII.

NOTE: Dispose of all wastes in accordance with Federal, State and Local regulations.

SECTION VIII SPECIAL HANDLING INFORMATION

TRANSPORTATION Not Restricted for quantities under the RQ of nickel components
(416 pounds of solution)

VENTILATION. Local Exhaust

RESPERATORY PROTECTION Not required

EYE PROTECTION: Safety glasses, chemical goggles or face shield.

GLOVES: Rubber Gloves

OTHER CLOTHING AND EQUIPMENT: Rubber apron, long sleeved shirts.

WORK PRACTICES, HYGENE Wash Thoroughly after handling.

OTHER HANDLING AND STORAGE Store in a cool, dry, ventilated area (55-85 °F).
Keep container closed.

End of Report

