MATERIAL SAFETY DATA SHEET

Pure Tech P.O. Box 1950 Brewster, New York 10509-8 845/279-0900	CHEMTREC:	gency Phone Number 800/424-9300 POISON CENTER: 8	
Date of Last Revis	sion: 10/16/96		

SECTION 1			
PRODUCT IDENTIFICATION			
CHEMICAL NAME(S) AND SYNON	YM(S): Nickel	FORMULA:	Ni
CHEMICAL FAMILY: Metal	CH	EM ABSTRACT NO. :	7440-02-0
TSCA: Product is listed.	CA	L. MOLECULAR WEIGH	T: 58.69
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SECTION 2			
INGREDIENTS/SUMMARY OF HAZARDS			
INGREDIENT(S)	<u>CAS</u> <u>#</u> <u>%</u>		HA PEL
Ni ckel 7440-02-0	99 1. Om	ng/m3 1.0 mg/M3	
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SECTION 3			
PHYSICAL DATA			
BOILING POINT (^O C) : 27	30 DE	NSITY (gm/cc):	NA
VAPOR PRESSURE:1mREACTION WITH WATER:Not		VOLATILE BY VOLUME PORATION RATE:	: NA NA
SOLUBILITY WITH WATER: In: APPEARANCE/ODOR: Silvery-wi Odorless OTHER: *****	hite, hard, malle	eable and ductile	

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SECTION 4 FIRE AND EXPLOSION HAZARD DATA FLASHPOINT/METHOD: NA AUTOIGNITION TEMP (^{O}C) : NA FLAMMABILITY: NO EXTINGUISHING MEDIA: () Water () Class D Extinguisher () Foam (x) Dry Chemical () CO(2)(x) Other (specify): Soda Ash or Lime Extingui shers SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved selfcontained breathing apparatus and full protective clothing. UNUSUAL FIRE AND EXPLOSION HAZARDS: Poisonous gases are produced in fire, including Nickel Carbonyl.

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SECTION 5 <u>Health Hazard Data</u>

HMI S HAZARD RATING:HEALTH:3REACTIVITY:4PERSONAL PROTECTION:

ROUTE(S) OF ENTRY: (x) Inhalation (x) Skin () Eyes () Ingestion

<u>EFFECTS</u> <u>OF</u> <u>OVEREXPOSURE</u> (acute and chronic)

INHALATION: May cause irritation to the upper respiratory tract.

DERMAL/EYE CONTACT: May cause slight eye irritation. Repeated or prolonged contact may cause skin irritation.

OTHER (specify): NTP has classified Ni as a Group 2B Carcinogen, possibly carcinogenic to humans. This classification is used where there is inadequate evidence in humans and limited evidence in animals. Only the dust and fumes from the roasting of nickel sulphide ores are carcinogenic to humans. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing lung disorders.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Induce vomiting. Seek Medical attention. Note: DO NOT make unconscious person vomit.

INHALATION: Remove victim to fresh air. Administer oxygen. Seek medical attention.

SKIN: Brush material off skin. Wash affected area with soap and water.

EYES: Flush eyes with water for 15 mins. Seek medical attention.

SECTION 6 <u>Reactivity</u> <u>Data</u>

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STABILITY:(x)Stable()UnstableCONDITIONSCONTRIBUTINGTOUNSTABILITY:None

INCOMPATIBILITY (materials to avoid):

() Water
() Combustible materials
() Strong bases
() Reducing Agents
() Strong oxidizing materials
() Strong acids
(x) Other (specify): Contact with mineral acids will release hydrogen.

HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures above the melting point, nickel oxide fumes may be formed.

HAZARDOUS POLYMERIZATION: () May occur (x) Will not occur

CONDITIONS TO AVOID: Nickel is soluble in acids. Contact with mineral acids liberates hydrogen gas which may form explosive mixtures in air.

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SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wearing full protective clothing, isolate the area and insure proper ventilation. Vacuum up spill and place in a container for proper disposal.

WASTE DISPOSAL METHOD: In accordance with regulations.

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SECTION 8

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION: (Specify type) NIOSH/MSHA approved respirator

VENTILATION: LOCAL EXHAUST: Use local exhaust to meet TLV requirements MECHANICAL (General): NA SPECIAL: NA

PROTECTIVE GLOVES: Recommended EYE PROTECTION: (x) Safety Glasses with Side Shields () Chemical Workers Dust-Proof Goggles (under dusting conditions) () Gas-Tight Goggles or Equivalent () Other (specify): OTHER PROTECTIVE EQUIPMENT: Maintain sink, safety shower and eyewash fountain in the work area. Wear full protective clothing at all times.

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SECTION 9 SPECIAL PRECAUTIONS AND TRANSPORTATION REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers in a cool, dry place. Wash hands and face thoroughly after handling. Nickel should be stored to avoud contact with strong acids (such as hydrochloric, sulfuric and nitric) since violent reactions occur. Store away from fluorine, ammonia, phosphorus, sulfur, selenium, hydrazine and performic acid.

TRANSPORTATION REQUIREMENTS: Not classified DOT CLASS: UN NUMBER: IMCO CLASS: **OTHER:**

ND = No Data Found NA = Not Applicable

MATERIAL SAFETY DATA SHEET

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