



**ANTI-SEIZE TECHNOLOGY**  
A.S.T. Industries, Inc.

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F -	0
R -	0
P.P.	A

# POLY-TEMP<sup>®</sup> ANTI-SEIZE TAPE NICKEL

STOCK # ('S): 36336, 36351, 36330

## MATERIAL SAFETY DATA SHEET

### Section 1- Chemical Product and Company Identification

**Manufacture:** Anti-Seize Technology  
2345 N. 17<sup>th</sup> Ave.  
Franklin Park, IL 60131

**Phone:** 847-455-2300

**Emergency Phone, 24 hr:** Infotrac @ 1-800-535-5053 or 352-323-3500

### Section 2-Composition/ Information on Ingredients

	CAS #	OSHA PEL, TLV	SARA III	PROP 65,	PERCENT	
POLYTETRAFLUROETHANE (PTFE)	9002-84-0	NOT ESTABLISHED	NO	NO	90 - 98	
NICKEL, AS DUST OR FUME	7740-02-0	1mg/m3	1mg/m3	YES	NO	2 - 7

NOTE: THE NICKEL IN THIS PRODUCT IS ENCAPSULATED INTO THE PTFE MATRIX AND IS NOT EXPECTED TO POSE A HEALTH CONCERN.

### Section 3- Hazard Identification

**ROUTES OF ENTRY:**        SKIN        EYES        INHALATION        INGESTION

**HEALTH HAZARDS:** "PTFE" IS RELATIVELY NON-TOXIC. THE PRIMARY HEALTH HAZARD ASSOCIATED WITH "PTFE" IS EXTREMELY HIGH TEMPERATURE (OVER 750 F) THERMAL DECOMPOSITION BYPRODUCTS. . HIGH TEMPERATURE DECOMPOSITION PRODUCTS CAN PRODUCE A CONDITION KNOWN AS "POLYMER FUME FEVER", CHARACTERIZED BY INFLUENZA LIKE SYMPTOMS. THE EFFECTS ARE REVERSIBLE,

NICKEL POWDER AND NICKEL OXIDE HAVE CAUSED TUMORS AT THE SITE OF INJECTION IN RODENTS. HOWEVER, STUDIES OF NICKEL CONTAINING PROSTHESES DO NOT SUGGEST A SIGNIFICANT RISK TO HUMANS. PROLONGED AND REPEATED SKIN CONTACT WITH METALLIC NICKEL CAN CAUSE NICKEL SENSITIVITY RESULTING IN ALLERGIC SKIN RASHES THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (I.A.R.C.) HAS CONCLUDED THAT NICKEL REFINING WAS CARCINOGENIC TO HUMANS AND THAT NICKEL AND CERTAIN NICKEL COMPOUNDS WERE PROBABLE HUMAN CARCINOGENS. I.A.R.C. COULD NOT STATE WITH ANY CERTAINTY WHICH FORMS OF NICKEL ARE PROBABLE CARCINOGENS BUT STATED.... "METALLIC NICKEL SEEMS LESS LIKELY TO BE A CARCINOGEN THAN NICKEL SUBSULFIDE OR NICKEL OXIDES..." EPIDEMIOLOGICAL STUDIES OF WORKERS EXPOSED TO DUST AND FUME GENERATED IN THE PRODUCTION OF NICKEL ALLOYS AND OF STAINLESS STEEL HAVE NOT INDICATED THE PRESENCE OF A SIGNIFICANT RESPIRATORY CANCER HAZARD.

### Section 4 – First Aid Measures

**SKIN:** WASH WITH SOAP AND WATER,

**EYES:** UNLIKELY

**INGESTION:** IF INGESTED THIS PRODUCT IS NOT EXPECTED TO CAUSE AN ACUTE REACTION. CALL A POISON CONTROL CENTER OR A PHYSICIAN.

**INHALATION:** NOT LIKELY UNDER NORMAL CONDITIONS OF USE. IF USING IN HIGH TEMPERATURE APPLICATIONS WHERE THERMAL DECOMPOSITION IS LIKELY, USE A LOCAL EXHAUST TO REMOVE FUMES. IF DIZZINESS OR IRRITATION OCCURS, SEEK FRESH AIR.

**CHEMICAL ('S) LISTED AS CARCINOGENS:** NICKEL,  
NPT? GROUP 2 I.A.R.C. ? : GROUP 2 A OSHA? : 1910.1027

### Section 5 – Fire Fighting Measures

**FLASH POINT AND METHOD USED:** DOES NOT APPLY

**FLAMMABLE LIMITS:** LEL: NO DATA UEL: NO DATA

**EXTINGUISHING MEDIA:** FOAM, CO2, DRY CHEMICAL

**SPECIAL FIRE FIGHTING PROCEDURES:** MAY EMIT TOXIC FUMES IN A FIRE. THIS PRODUCT WILL NOT BURN WITHOUT AN EXTERNAL SOURCE OF FUEL. WEAR A "N.I.O.S.H" APPROVED ORGANIC VAPOR RESPIRATOR.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** DENSE SMOKE AND NOXIOUS OR TOXIC FUMES MAY BE GENERATED IN A FIRE. FIRE FIGHTERS SHOULD WEAR A SELF CONTAINED BREATHING APPARATUS.

### Section 6 – Accidental Release Measures

**SPILL/ LEAKAGE PROCEDURES:** DOES NOT APPLY

### Section 7 – Handling and Storage

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** NONE REASONABLY FORESEEN.  
**OTHER PRECAUTIONS:** KEEP AWAY FROM CHILDREN.

### Section 8 – Exposure Controls / Personal Protection

**RESPIRATORY PROTECTION:** NORMALLY NOT REQUIRED. IF THIS PRODUCT IS BEING USED IN HIGH TEMPERATURE APPLICATIONS WHERE THE PRODUCT "SMOKES", USE A LOCAL EXHAUST OR VENTILATE THE AREA TO MAINTAIN THE AIR QUALITY. A "N.I.O.S.H" APPROVED ORGANIC VAPOR RESPIRATOR IS ALSO ACCEPTABLE.

**PROTECTIVE GLOVES:** NORMALLY NOT REQUIRED.

**EYE PROTECTION:** NOT REQUIRED.

**WORK/HYGIENIC PRACTICES:** USE GOOD STANDARD PRACTICES WHEN USING THIS MATERIAL. DO NOT SMOKE WHILE USING. USE A NAIL BRUSH WHEN WASHING HANDS.

### Section 9 – Physical and Chemical Properties

**BOILING POINT:** DOES NOT APPLY

**MELTING POINT:** OVER 550 F

**VAPOR PRESSURE:** 0

**EVAPORATION RATE:** 0

**APPEARANCE AND ODOR:** NICKEL COLORED PLASTIC LIKE TAPE

**SOLUBILITY IN WATER:** NONE

**REACTIVITY IN WATER:** NONE

**SPECIFIC GRAVITY:** 2.7

**PERCENT VOLATILE:** 0

### Section 10 – Stability and Reactivity

**STABILITY:** (X) STABLE ( ) UNSTABLE

**CONDITIONS TO AVOID:** TEMPERATURE OVER 500F

**INCOMPATIBILITY, (MATERIALS TO AVOID):** ALKALI METALS, INTERHALOGEN COMPOUNDS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** IF THE SERVICE TEMPERATURES EXCEEDS 750 F. THEN "PTFE" WILL BEGIN TO UNDERGO THERMAL DECOMPOSITION. AT THESE TEMPERATURES "PTFE" CAN EMIT ACUTELY TOXIC VAPORS. THESE VAPORS CAN INCLUDE HEXAFLUOROPROPYLENE, PERFLUOROISOBUTYLENE AND CARBONYL FLUORIDE.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

### Section 11 – Toxicological Information

SEE SECTION 2 FOR ADDITIONAL INFORMATION AND EXPOSURE LIMITS

### Section 12 – Ecological Information

NO ADDITIONAL INFORMATION IS AVAILABLE. THIS PRODUCT IS NOT EXPECTED TO BIOACCUMULATE.

### Section 13 – Disposal Consideration

**WASTE DISPOSAL:** DISPOSE OF IN A RESPONSIBLE MANNER. FOLLOW LOCAL, STATE AND FEDERAL GUIDELINES. DO NOT DISCHARGE INTO SEWERS OR WATERWAYS. INCINERATION IS THE PREFERRED METHOD OF DISPOSAL, ALTHOUGH IT MAY BE LANDFILLED AT AN APPROVED FACILITY.

### Section 14- Transport Information

**TRANSPORTATION BY LAND (49CFR);** NOT REGULATED

**TRANSPORTATION BY AIR (ICAO/IATA):** NOT REGULATED

**TRANSPORTATION BY SHIP (IMO/IMDG):** NOT REGULATED

**WHMIS:** NOT REGULATED.

### Section 15 – Regulatory Information

**CALIFORNIA PROPOSITION 65:** NO

**OZONE DEPLETING SUBSTANCES:** NONE

**SARA TITLE III:** NICKEL

**CERCLA:** NO

**RCRA:** NO

**DOT SHIPPING CLASS:** NOT HAZARDOUS

**TASCA INVENTORY:** ALL INGREDIENTS LISTED

**NFPA RATING:** H-1, F-0, R-0

### Section 16 – Other Information:

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS OBTAINED FROM THE USE OF HIS PRODUCT. THEREFORE, BECAUSE THE PRODUCT MAY BE USED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO LIABILITY FOR ITS USE.

**DATE:** 01/15/2009

**POLY-TEMP NICKEL, 16 PART ISO MSDS**