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POLY-TEMP[®] NICKEL

ANTI-SEIZE TAPE

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

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURE: ANTI-SEIZE TECHNOLOGY

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SECTION II - COMPOSITION

	CAS #	OSHA PEL,	TLV	SARA III	PROP 65,	PERCENT
POLYTETRAFLUROETHANE (99.9% virgin material)	9002-84-0	NOT ESTABLISHED		NO	NO	80 - 90
NICKEL, AS DUST OR FUME	7740-02-0	1mg/m3	1mg/m3	YES	NO	1 - 15

SECTION III - PHYSICAL 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 IV - FIRE AND EXPLOSION DATA

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. DOES 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 V- PHYSICAL HAZARDS

STABILITY: (X) STABLE () UNSTABLE

CONDITIONS TO AVOID: TEMPERATURE OVER 500F

INCOMPATABILITY ,(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 VI - HEALTH HAZARDS AND FIRST AID

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

EMERGENCY FIRST AID PROCEDURES

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 VII - SPECIAL PRECAUTIONS AND SPILL PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: NONE REASONABLY FORESEEN.

OTHER PRECAUTIONS: KEEP AWAY FROM CHILDREN.

SPILL/ LEAKAGE PROCEDURES: DOES NOT APPLY

WASTE DISPOSAL: DISPOSE OF IN A RESPONSIBLE MANNER. FOLLOW LOCAL, STATE AND FEDERAL GUIDELINES. . INCINERATION IS THE PREFERRED METHOD OF DISPOSAL, ALTHOUGH IT MAY BE LANDFILLED AT AN APPROVED FACILITY.

SECTION VIII - SPECIAL PROTECTION INFORMATION

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 X - DISCLAIMER

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 THIS PRODUCT. THEREFORE, BECAUSE THE PRODUCT MAY BE USED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO LIABILITY FOR IT'S USE.

DATE PREPARED: 4/16/02

Poly-temp Nickel