



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

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NICKEL-GRAF™

Nickel and Graphite Based ANTI-SEIZE COMPOUND

STOCK # ('S): 13002, 13003, 13005, 13008, 13015, 13016, 13018, 13025, 13030, 13050,
131130, 13425

MATERIAL SAFETY DATA SHEET

Section 1- Chemical Product and Company Identification

Manufacture: Anti-Seize Technology
2345 N. 17th 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
NICKEL, AS DUST OR FUME	7740-02-0	1mg/m3	1mg/m3	YES	NO	18-30
ALUMINUM, AS DUST	7429-90-5	5mg/m3	5mg/m3	YES	NO	1-5

CHEMICAL'S SUBJECT TO REPORTING UNDER SARA TITLE III:

NICKEL POWDER CAS# 7740-02-0 21%

ALUMINUM CAS# 7429-90-5 2

SEE SECTION VI - HEALTH HAZARDS AND FIRST AID FOR ADDITIONAL INFORMATION

Section 3- Hazard Identification

ROUTES OF ENTRY: SKIN EYES INHALATION INGESTION

HEALTH HAZARDS: WOUNDS: 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. **INHALATION:** NOT A LIKELY SOURCE OF EXPOSURE UNLESS USED AT HIGH TEMPERATURES WHERE THE GREASE WILL BURN OFF. FUMES COULD BE IRRITATING.

INGESTION: DO NOT INDUCE VOMITING BECAUSE MATERIAL COULD BE ASPIRATED INTO THE LUNGS.

SKIN: NOT PARTICULARLY IRRITATING. AVOID OPEN WOUNDS.

EYES: NORMALLY NOT IRRITATING

Section 4 – First Aid Measures

SKIN: WASH WITH SOAP AND WATER, USING A NAIL BRUSH. PAY PARTICULAR ATTENTION TO FINGER NAILS AND OPEN WOUNDS.

EYES: THIS PRODUCT COULD CAUSE SOME MECHANICAL IRRITATION IF GOTTEN INTO THE EYES AND RUBBED. FLUSH EYE WITH WATER FOR 15 MINUTES, LIFTING THE EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

INGESTION: IF INGESTED THIS PRODUCT IS NOT EXPECTED TO CAUSE AN ACUTE REACTION. THIS PRODUCT CONTAINS PETROLEUM OIL; DO NOT INDUCE VOMITING, BECAUSE THE OIL MAY BE ASPIRATED INTO THE LUNGS. USE A GASTRIC LAVAGE, AND 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.

Section 5 – Fire Fighting Measures

FLASH POINT AND METHOD USED: OVER 450 F, (232C) CLEVELAND OPEN CUP
FLAMMABLE LIMITS: LEL: NO DATA UEL: NO DATA
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES: THIS COMPOUND WILL NOT BURN UNLESS IT IS PRE-HEATED. WATER FOG MAY BE USED TO COOL THE CONTAINERS BUT DO NOT SPRAY DIRECTLY INTO LARGE CONTAINERS OF BURNING LIQUIDS AS FROTHING MAY OCCUR. 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: BECAUSE OF THE GREASE LIKE NATURE OF THIS PRODUCT LEAKS ARE NOT EXPECTED. SCOOP BACK INTO THE CONTAINER.
WASTE DISPOSAL: THIS COMPOUND MAY BE A REGULATED WASTE IN CERTAIN AREAS OF THE COUNTRY. FOLLOW LOCAL, STATE, AND FEDERAL GUIDELINES. DISPOSE OF AT AN APPROVED FACILITY. DO NOT DISPOSE OF INTO WATERWAYS OR SEWERS.

Section 7 – Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE AWAY FROM STRONG OXIDIZERS OR PEROXIDES. DO NOT TRANSFER TO AN UNMARKED CONTAINER. KEEP AWAY FROM CHILDREN.
OTHER PRECAUTIONS: DO NOT ALLOW THIS MATERIAL TO ENTER SEWERS OR WATERWAYS.

Section 8 – Exposure Controls / Personal Protection

RESPIRATORY PROTECTION: NORMALLY NOT REQUIRED. IF USED AT HIGH TEMPERATURES WHERE SMOKE OR FUMES ARE GENERATED, USE A LOCAL EXHAUST TO MAINTAIN AIR QUALITY OR WEAR A "N.I.O.S.H" APPROVED AN ORGANIC VAPOR RESPIRATOR.
PROTECTIVE GLOVES: ARE RECOMMENDED IF HAND WOUNDS ARE PRESENT
EYE PROTECTION: SAFETY GLASSES ARE RECOMMENDED
WORK/HYGIENIC PRACTICES: USE GOOD STANDARD PRACTICES WHEN USING THIS MATERIAL. DO NOT EAT OR SMOKE WHILE USING, AND THOROUGHLY WASH WITH SOAP AND WATER, USING A NAIL BRUSH AFTER USING.

Section 9 – Physical and Chemical Properties

BOILING POINT: DOES NOT APPLY	SOLUBILITY IN WATER: NIL
MELTING POINT: DOES NOT APPLY	REACTIVITY IN WATER: NONE
VAPOR PRESSURE: NO DATA	SPECIFIC GRAVITY: 1.2
EVAPORATION RATE: 0	VOC CONTENT: 0
APPEARANCE AND ODOR: NICKEL COLORED PASTE, GREASE LIKE ODOR	

Section 10 – Stability and Reactivity

STABILITY: (X) STABLE () UNSTABLE
CONDITIONS TO AVOID: STORAGE AROUND STRONG OXIDIZERS OR PEROXIDES
INCOMPATIBILITY: MAY REACT WITH STRONG OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: THE THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT UPON THE COMBUSTION CONDITIONS. NOXIOUS OR TOXIC FUMES MAY BE GENERATED, SOME OF WHICH MAY BE TOXIC OR IRRITATING.

Section 11 – Toxicological Information

7740-02-0, NICKEL, AS DUST OR FUME	OSHA, PEL 1mg/m3 ACGIH, TLV 1.5mg/m3
7429-90-5 ALUMINUM, AS DUST	OSHA, PEL 15mg/m3 ACGIH, TLV 10mg/m3

Section 12 – Ecological Information

NO DATA

Section 13 – Disposal Consideration

WASTE DISPOSAL: THIS COMPOUND MAY BE A REGULATED WASTE IN CERTAIN AREAS OF THE COUNTRY. FOLLOW LOCAL, STATE, AND FEDERAL GUIDELINES. DISPOSE OF AT AN APPROVED FACILITY. DO NOT DISPOSE OF INTO WATERWAYS OR SEWERS. INCINERATION IS THE PREFERRED METHOD OF DISPOSAL. NOT A RCRA HAZARDOUS WASTE MATERIAL.

Section 14- Transport Information

TRANSPORTATION BY LAND (49CFR): UNRESTRICTED

TRANSPORTATION BY AIR (ICAO/IATA): UNRESTRICTED

TRANSPORTATION BY SHIP (IMO/IMDG): UNRESTRICTED

Section 15 – Regulatory Information

CALIFORNIA PROPOSITION 65: NICKEL
OZONE DEPLETING SUBSTANCES: NONE
SARA TITLE III: NICKEL
CERCLA: NICKEL
RCRA: NO
TASCA INVENTORY: ALL INGREDIENTS LISTED
N.F.P.A. RATING: H-2, F-2, R-0

DOT (49 CFR 172)
PROPER SHIPPING NAME: UNRESTRICTED
HAZARD CLASS: UNRESTRICTED
IDENTIFICATION NUMBER: NONE
MARINE POLLUTANT: ONE
IATA: NOT RESTRICTED
PROPER SHIPPING NAME: UNRESTRICTED
CLASS / DIVISION: UNRESTRICTED

UN or ID NUMBER: NONE

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: 1/15/2009

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