



| H.M.I.S. |   |
|----------|---|
| H -      | 2 |
| F -      | 0 |
| R -      | 0 |
| P.P.     | A |

# NICKEL-GRAF™

*Nickel and Graphite Based*

## *ANTI-SEIZE AND LUBRICATING COMPOUND*

STOCK # ('S) : 13002,13003,13008,13010,13015,13016,13018,13019,13025,13030,13050

### MATERIAL SAFETY DATA SHEET

#### SECTION I - PRODUCT IDENTIFICATION

**MANUFACTURE:** ANTI-SEIZE TECHNOLOGY  
2345 N. 17th. Ave.  
FRANKLIN PARK, IL. 60131

**TELEPHONE #:** 847-455-2300

**24 HOUR EMERGENCY #:** INFOTEC @ 1-800-535-5053

#### SECTION II - COMPOSITION

|                         | 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   |
| PETROLEUM OIL, AS MIST  | MIXTURE   | 5mg/m3    | 5mg/m3  | NO       | NO       | 50-70   |
| ALUMINUM, AS DUST       | 7429-90-5 | 5mg/m3    | 5mg/m3  | YES      | NO       | 1-5     |
| GRAPHITE, PURIFIED      | 7440-44-0 | 15mg/m3   | 15mg/m3 | NO       | NO       | 10-30   |

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 III - PHYSICAL PROPERTIES

**BOILING POINT:** DOES NOT APPLY  
**MELTING POINT:** DOES NOT APPLY  
**VAPOR PRESSURE:** NO DATA  
**EVAPORATION RATE:** 0  
**APPEARANCE AND ODOR:** NICKEL COLORED PASTE, GREASE LIKE ODOR

**SOLUBILITY IN WATER:** NIL  
**REACTIVITY IN WATER:** NONE  
**SPECIFIC GRAVITY:** 1.2  
**VOC CONTENT:** 0

#### SECTION IV - FIRE AND EXPLOSION DATA

**FLASH POINT AND METHOD USED:** OVER 450 F, C.O.C.  
**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 V- PHYSICAL HAZARDS

**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 DEPENDANT UPON THE COMBUSTION CONDITIONS. NOXIOUS OR TOXIC FUMES MAY BE GENERATED, SOME OF WHICH MAY BE TOXIC OR IRRITATING.  
**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

#### SECTION VI - HEALTH HAZARDS AND FIRST AID

**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.

## EMERGENCY FIRST AID PROCEDURES

**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 A 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.

## CHEMICAL ('S) LISTED AS CARCINOGENS

NPT ? : YES I.A.R.C. ? : YES OSHA ? YES

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 VII - SPECIAL PRECAUTIONS AND SPILL PROCEDURES

**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.

**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 VIII - SPECIAL PROTECTION INFORMATION

**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 IX - 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:** NONE

IATA

**PROPER SHIPPING NAME:** UNRESTRICTED

**CLASS / DIVISION:** UNRESTRICTED

**UN or ID NUMBER:** NONE

## SECTION IX - 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:** 8/24/04

**NICKEL-GRAF**