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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 Distributed by: Moreau Marketing & Sales
410 Lori Lane
Winston-Salem, NC 27127

TELEPHONE #: 336-764-5232 Fax: 336-764-0941 www.Rmoreau.com

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 **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 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

INCOMPATABILITY: 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-1,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: 3/05/03

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