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VER DATE: 1995-01-03

C H E M I S T R I DATE: 10/22/02
MATERIAL SAFETY DATA SHEET TIME: 19:01:14
PAGE: 0001

SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: NICKEL ANTI-SEIZE

ALL SYNONYMS : ANTI-SEIZE

ANTI-SEIZE COMPOUND
ANTI-SEIZE COMPOUND (BULK)
ANTI-SEIZE 771
CUA3850
DCS-507
ENG01
FAH 1443
HMC695
L-12A-503
LOCTITE ANTI-SEIZE LUBRICANT
LOCTITE NICKEL ANTI-SEIZE 771
L1887
NEVER SEIZE
NICKEL ANTI SEIZE LUBRICANT
NICKEL ANTI-SEIZE
NICKEL ANTI-SEIZE LUBRICANT
NICKEL ANTI-SEIZE LUBRICANT 771
NICKEL ANTI-SEIZE LUBRICANT 77124 + 77164 (FORMER)
NICKEL ANTI-SEIZE 771
PERMATEX NICKEL ANTI-SEIZE
RF0231
SA 2909
SHV2370
SHV2370 LOCTITE 771, ANTI-SEIZE 771, 9985462
TPW2001
12371386
14001899
1853
201154= 1 LB CAN
300737 (OLD FID)
30720 (ITEM NO.)
310314 (OLD FID)
77124
77124 ITEM NO.
77164
80755
9985462
9985462 LOCTITE 771

SAFE USE CATEGORY AND DESCRIPTION: 04 -METAL WORKING FLUIDS AND
LUBRICANTS

LAST UPDATED DATE: 1999-01-27

MANUFACTURER'S ID (MID): 000522786
MANUFACTURER'S NAME: LOCTITE CORP
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 860-571-5100

MANUFACTURER'S MAILING ADDRESS:

1001 TROUT BROOK CROSSING
ALSO SEE GMBA #502982 (PERMATEX)
ROCKY HILL CT 06067-3910
US

SECTION 1 - OTHER INFORMATION: PRODUCT TYPE: LUBRICANT. PREPARED BY:
STEPHEN REPETTO. TITLE: RESEARCH CHEMIST, ENVIRONMENTAL HEALTH AND
SAFETY.

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
007429905	R 1.0000/ 3.0000%	W	ALUMINUM
007440020	R 15.0000/ 20.0000%	W	NICKEL
007620771	R 3.0000/ 5.0000%	W	Octadecanoic acid, 12-hydroxy-, mo nolithium salt
007782425	R 10.0000/ 15.0000%	W	GRAPHITE
064742525	R 55.0000/ 60.0000%	W	MINERAL OIL, PETROLEUM DISTILLATES , HYDROTREATED (severe) HEAVY NAPH THENIC
989982547	R 10.0000/ 15.0000%	W	OXYGENATED ALIPHATIC HYDROCARBON (SURFTECH DOF-17)

SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS:

SKIN PRIMARY ENTRY ROUTE INDICATOR = Y
EYE PRIMARY ENTRY ROUTE INDICATOR = Y
INHALATION PRIMARY ENTRY ROUTE INDICATOR = Y
INGESTION PRIMARY ENTRY ROUTE INDICATOR = Y
PRIMARY ROUTES OF ENTRY TEXT: INGESTION, INHALATION.

EFFECTS OF OVEREXPOSURE - SKIN: TOXICITY: MAY IRRITATE SKIN. SIGNS AND
SYMPTOMS OF EXPOSURE: MAY CAUSE SKIN IRRITATION, DERMATITIS, OIL ACNE,
OR DEFATTING OF SKIN ON PROLONGED OR REPEATED CONTACT.

EFFECTS OF OVEREXPOSURE - EYE: TOXICITY: MAY IRRITATE EYES. SIGNS AND
SYMPTOMS OF EXPOSURE: MAY CAUSE EYE IRRITATION. INHALATION MAY CAUSE
WATERING OF EYES.

EFFECTS OF OVEREXPOSURE - INHALATION: SIGNS AND SYMPTOMS OF EXPOSURE:
INHALATION MAY CAUSE NAUSEA, DIZZINESS, IRRITATION OF NOSE AND THROAT.

EFFECTS OF OVEREXPOSURE - INGESTION: SIGNS AND SYMPTOMS OF EXPOSURE:
INGESTION MAY CAUSE IRRITATION, VOMITING, DIARRHEA, NAUSEA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: GRAPHITE POWDER: EMPHYSEMA,
ASTHMA.

ADDITIONAL HEALTH HAZARD DATA: TARGET ORGAN AND OTHER HEALTH EFFECTS:
(64742-52-5): IRRITANT. (7440-02-0): ALLERGEN, IRRITANT, KIDNEY,
RESPIRATORY. (7782-42-5): LUNG. (989982547), (7620-77-1): NO DATA.
(7429-90-5): CENTRAL NERVOUS SYSTEM, IRRITANT, LUNG.

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: WASH WITH SOAP AND WATER.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH AT LEAST 15 MINUTES WITH WATER. OBTAIN MEDICAL ATTENTION.
EMERGENCY FIRST AID PROCEDURES - INHALATION: OIL MIST: REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, OBTAIN MEDICAL ATTENTION.
EMERGENCY FIRST AID PROCEDURES - INGESTION: DO NOT INDUCE VOMITING. KEEP INDIVIDUAL CALM. OBTAIN MEDICAL ATTENTION.

SECTION 05: FIRE-FIGHTING MEASURES

SPECIAL FIRE FIGHTING PROCEDURES: RECOMMENDED EXTINGUISHING AGENTS: CARBON DIOXIDE, FOAM, DRY CHEMICAL. DO NOT USE WATER. SPECIAL FIREFIGHTING PROCEDURES: NOT AVAILABLE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

HMIS CODES:

HMIS REACTIVITY CODE = 0

HMIS HEALTH CODE = 1

HMIS FLAMMABILITY CODE = 1

NFPA CODES:

NFPA FLAMMABILITY CODE = 1

NFPA HEALTH CODE = 1

NFPA REACTIVITY CODE = 0

FLASH POINT TEMPS: > 200.00F

FLASH POINT METHOD: TCC

FLASH POINT METHOD TEXT: TAG CLOSED CUP.

SECTION 5 - OTHER INFORMATION: HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMP: METAL VAPORS; OXIDES OF CARBON, BARIUM, ZINC; SMOKE; FUMES. EXPLOSIVE LIMITS: (% BY VOLUME IN AIR): LOWER: 30% ALUMINUM METAL (7429-90-5); (% BY VOLUME IN AIR): UPPER: NOT AVAILABLE. NFPA AND HMIS CODE ARE ESTIMATED. ESTIMATED NFPA CODE: SPECIAL HAZARD: NO WATER. ESTIMATED HMIS CODE: PERSONAL PROTECTION: SEE SECTION 8.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: REMOVE SOURCES OF IGNITION. TAKE UP WITH AN INERT ABSORBENT. STORE IN A CLOSED CONTAINER UNTIL DISPOSAL.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: SAFE STORAGE: KEEP AWAY FROM SOURCES OF IGNITION AND HOT SURFACES. (CONTACT LOCTITE CUSTOMER SERVICE 1-800-243-4874 FOR SHELF LIFE INFORMATION). HANDLING: KEEP AWAY FROM EYES. AVOID PROLONGED SKIN CONTACT. AVOID PROLONGED BREATHING OF VAPORS.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: SAFETY GLASSES OR GOGGLES.

RESPIRATORY PROTECTION: NOT AVAILABLE.

ENGINEERING CONTROLS: VENTILATION: PROVIDE ADEQUATE LOCAL VENTILATION TO MAINTAIN VAPOR CONCENTRATION BELOW TLV IF MISTING OF OIL OCCURS OR COMPOUND BECOMES DRY.

PROTECTIVE GLOVES (SPECIFY TYPE): OIL RESISTANT PLASTIC GLOVES.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT TEXT: NOT AVAILABLE.

SPECIFIC GRAVITY VALUES: = 1.1000

VAPOR DENSITY TEXT: NOT AVAILABLE.

VAPOR PRESSURE TEXT: LESS THAN (<) 5 MM AT 80 F.

EVAPORATION RATE TEXT: (ETHER=1): NOT AVAILABLE.

SOLUBILITY IN WATER TEXT: LESS THAN (<) 1%.

PH OF PRODUCT AS RECEIVED (NEAT)/TEXT: DOES NOT APPLY.

APPEARANCE: GREY PASTE.

ODOR: PETROLEUM ODOR.

PHYSICAL STATE: PAS

SECTION 9 - OTHER INFORMATION: VOLATILE ORGANIC COMPOUND (EPA METHOD 24): 2.47%; 27 GRAMS PER LITER.

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y

STABILITY - TEXT: INCOMPATIBILITY: STRONG OXIDIZERS. CONDITIONS TO AVOID: NOT AVAILABLE.

HAZARDOUS DECOMPOSITION PRODUCTS: (NON-THERMAL): NONE. HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMP: METAL VAPORS; OXIDES OF CARBON, BARIUM, ZINC; SMOKE; FUMES.

HAZARDOUS POLYMERIZATION INDICATOR: N

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA UNLIMITED TEXT: TOXICITY: ESTIMATED ORAL LD50 MORE THAN 5000 MG/KG. ESTIMATED DERMAL LD50 MORE THAN 2000 MG/KG. TARGET ORGAN AND OTHER HEALTH EFFECTS: (7440-02-0): MUTAGEN, REPRODUCTIVE.

CARCINOGENICITY: TARGET ORGAN AND OTHER HEALTH EFFECTS: (7440-02-0): CANCER (HUMAN CARCINOGEN). CARCINOGEN: (64742-52-5), (7782-42-5),

(989982547), (7620-77-1), (7429-90-5): NONE OF THESE INGREDIENTS ARE LISTED AS CARCINOGENS BY NTP, IARC OR OSHA. (7440-02-0): LISTED AS A CARCINOGEN BY NTP; NOT LISTED AS A CARCINOGEN BY OSHA; LISTED AS 2B (POSSIBLY CARCINOGENIC TO HUMANS) BY IARC.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: NO DATA AVAILABLE.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: RECOMMENDED METHODS OF DISPOSAL: INCINERATE FOLLOWING EPA AND LOCAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION: (49 CFR 172) DOMESTIC GROUND TRANSPORT: PROPER SHIPPING NAME, HAZARD CLASS OR DIVISION: UNRESTRICTED. IDENTIFICATION NUMBER, MARINE POLLUTANT: NONE.

SECTION 14 - OTHER INFORMATION: IATA: PROPER SHIPPING NAME, CLASS OR DIVISION: UNRESTRICTED. UN OR ID NUMBER: NONE.

SECTION 15: REGULATORY INFORMATION

SARA 311/312 HAZARD INDICATORS:

IMMEDIATE HEALTH INDICATOR =	N
DELAYED HEALTH INDICATOR =	Y

SECTION 15 - OTHER INFORMATION: U.S. MANUFACTURERS ARE REQUIRED TO BE TSCA COMPLIANT. (7440-02-0): THIS COMPONENT IS LISTED AS A SARA SECTION 313 TOXIC CHEMICAL. CA PROPOSITION 65: WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: NICKEL (7440-02-0).

SECTION 16: OTHER INFORMATION

RCRA HAZARDOUS WASTE NUMBER TEXT: EPA HAZARDOUS WASTE NUMBER: NH-NOT A RCRA HAZARDOUS WASTE MATERIAL.