

FEL-PRO CHEMICAL PRODUCTS LP -- C-5A ANTISEIZE, ANTI-SEIZE LUBRICANT (FORMERLY ON-N-OFF) -- 8030-00-200-3782

===== Product Identification =====

Product ID:C-5A ANTISEIZE, ANTI-SEIZE LUBRICANT (FORMERLY ON-N-OFF)

MSDS Date:02/10/1998

FSC:8030

NIIN:00-200-3782

Status Code:A

MSDS Number: CKHXM

=== Responsible Party ===

Company Name:FEL-PRO CHEMICAL PRODUCTS LP

Address:3412 WEST TOUHY AVE

Box:UNKNOW

City:LINCOLNWOOD

State:IL

ZIP:60645

Country:US

Info Phone Num:303-289-5651

Emergency Phone Num:800-424-9300

Preparer's Name:CATHY GRIFFITH

CAGE:05VH4

=== Contractor Identification ===

Company Name:FEL-PRO CHEMICAL PRODUCTS LP

Address:3412 WEST TOUHY AVE

Box:City:LINCOLNWOOD

State:IL

ZIP:60645

Country:US

Phone:303-289-5651

CAGE:05VH4

===== Composition/Information on Ingredients =====

Ingred Name:GRAPHITE

CAS:7782-42-5

RTECS #:MD9659600

Fraction by Wt: 20%

OSHA PEL:2.0 MG/M3

AC

GIH TLV:2.5 MG/M3

Ingred Name:DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC

CAS:64742-52-5

RTECS #:PY8035000

Fraction by Wt: 25%

Ingred Name:ALLBRI NATURAL COPPER

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 25%

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:PETROLEUM DISTILLATE

CAS:64742-18-3

Fraction by Wt: 15%

OSHA PEL:5 MG/M3

OSHA STEL:10 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:SILICON DIOXIDE (ENCAPSULATED)

CAS:14808-60-7

RTECS #:VV733

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Fraction by Wt: 0.2%

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.1 MG/M3

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===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:UNKNOWN Ingestion:YES

Health Hazards Acute and Chronic:HARMFUL IF SWALLOWED. AT ELEVATED

TEMPERATURES MAY CAUSE IRRITATION OF THE EYES AND REPIRATORY TRACT.

ACUTE EFFECTS: EYE CONTACT: SLIGHTLY IRRITATING BUT DOES NOT

INJURE EYE TISSUE. ACUTE EFFECTS SKIN CONTACT: PROLONGED OR

REPEATED SKIN CONTACT MAY C

AUSE IRRITATION. ACUTE EFFECTS

INHALATION: INHALATION OF DUST AT LEVELS ABOVE RECOMMENDED

EXPOSURE LIMITS MAY CAUSE METALLIC OR SWEET TASTE, IR RITATION OF

PHARYNX, AND POSSIBLE UNCERATION WITH PERFORATION OF THE NASAL

SEPTUM. ACUTE EFFECTS INGESTION: MODERATELY TOXIC. IRRITATING TO

MOUTH, THROAT AND STOMACH, WITH NAUSEA.

Effects of Overexposure:REPEATED AND PROLONGED INHALATION OF GRAPHITE

OR CARBON DUSTS MAY CAUSE PULMONARY FIBROSIS, EMPHYSEMA, AND

PNEUMOCONIOS

IS. THE SEVERITY OF THESE EFFECTS IS GREATLY INFLUENCED BY THE PRESENCE OF OTHER HARMFUL MINERAL DUSTS, MOST NOTABLY CRYSTALLINE SILICA. *

Medical Cond Aggravated by Exposure:PREEXISTING PULMONARY AND DERMATOLOGICAL DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO HAZARDOUS COMPONENTS.

===== First Aid Measures =====

First Aid:EYES IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. GET MEDICAL ATTENTION, IF IRRITATION PERSISTS. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. INHALATION: NO SPECIFIC TREATMENT IS NECESSARY SINCE THIS MATERIAL IS NOT LIKELY TO BE HAZARDOUS BY INHALATION. IF EXPOSED TO EXCESSIVE LEVELS OF DUSTS OR FUMES, REMOVE TO FRESH AIR AND GET MEDICAL ATTENTION IF COUGH OR OTHER SYMPTOMS DEVELOP. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE VICTIM A GLASS OF WATER OR MILK. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

===== Fire Fighting Measures =====

Flash Point:=-148.9C, 300.F
300F

Extinguishing Media:CO2, DRY CHEMICAL, FOAM,WATER FOG.

Fire Fighting Procedures:FINELY DIVIDED DUST IN AIR MAY PRESENT EXPLOSION HAZARD. PREVENT DUST BUILDUP. CLOSED CONTAINERS MAY RUPTURE OR EXPLODE (DUE TO PRESSURE BUILD-UP) WHEN EXPOSED TO EXTREME HEAT. IRRITATING AND/OR TOXIC GASES OR FUMES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION.

Unusual Fire/Explosion Hazard:USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER TO COOL EXPOSED CONTAINERS. WATER STREAM DIRECTED INTO FIRE MAY CAUSE FROTHING WITH SUBSEQUENT SPREAD OF FLAME.

===== Accidental Release Measures =====

Spill Release Procedures:RECLAIM CLEAN MATERIAL. CONTAMINATED MATERIAL SHOULD BE SWEEPED OR SHOVELED INTO APPROPRIATE WASTE CONTAINER AND DISPOSED

SHOWN TO BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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===== Handling and Storage =====

Handling and Storage Precautions:WASH HANDS BEFORE EATING. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY. STORAGE: STORE AWAY FROM HEAT. KEEP OUT OF THE REACH OF CHILDREN.

Other Precautions:*THIS PRODUCT CONTAINS ENCAPSULATED SILICON DIOXIDE (QUARTZ, SILICA). NO EXPOSURE TO FREE RESPIRABLE SILICA IS ANTICIPATED DURING NORMAL USE OF THIS PRODUCT. IT SHOULD BE NOTED, HOWEVER, THAT FREE RESPIRABLE SILICA HAS BEEN LISTED AS A CONFIRMED HUMAN CARCINOGEN BY NTP AND IARC.**

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE NORMALLY REQUIRED UNDER GENERAL VENTILATION. IF EXPOSURE LEVELS ARE UNKNOWN, IF LEVELS EXCEED TLV/PEL, OR IF EFFECTS OCCUR, USE NIOSH-APPROVED DUST/MIST RESPIRATOR IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY REGULATIONS AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:GENERAL VENTILATION USUALLY ADEQUATE.

Protective Gloves:CLEAN CLOTHING TO COVER SKIN. CLOTH OR SYNTHETIC GLOVES.

Eye Protection:SAFETY GLASSES.

Other Protective Equipment:ACCESSIBLE EYE WASH AND SAFETY SHOWER.

Work Hygienic Practices:FOLLOW GENERAL INDUSTRIAL SAFETY PRACTICES DURING USE. DO NOT REUSE EMPTY CONTAINERS WITHOUT COMMERCIAL CLEAN OR RECONDITION. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED.

Supplemental Safety and Health

Supplemental Safety and Health

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===== Physical/Chemical Properties =====

Boiling Pt:>287.8C, 550.F

B.P. Text:550-4215 F

Vapor Density:>1

Spec Gravity:1.3017

pH:0.0%

Viscosity:HIGH

Evaporation Rate & Reference:SLOWER

Solubility in Water:INSOLUBLE

Appearance and Odor:COPPER COLORED, SLIGHT PETROLEUM

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
STRONG LEWIS

OR MINERAL ACIDS. STRONG BASES OR OXIDANTS. NITRATES, NITRITES, CHLORINATED HYDROCARBONS, CHLORIDES, PALLADIUM, SELENIUM, MANGANESE + POTASSIUM CHLORATE, SODIUM CARBONATE, SUFATES, DIBORANE.

Stability Condition to Avoid:PROLONGED EXPOSURE TO HEAT.

Hazardous Decomposition Products:OXIDES OF CARBON. VARIOUS HYDROCARBONS. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

===== Toxicological Information =====

Toxicological Infor

mation:** INHALATION OF FREE RESPIRABLE SILICA MAY CAUSE SILICOSIS OR OTHER SERIOUS DELAYED LUNG INJURY. SILICA MAY BE RELEASED BY GRINDING OR MACHINING OF COATED MATERIALS. USE NIOSH-APPROVED DUST/MIST R ESPIRATOR WHEN GRINDING OR MACHINING COATING OR COATED ITEMS. EFFECTS OF OVEREXPOSURE - ***

===== Ecological Information =====

Ecological:***CHRONIC HAZARDS: THIS PRODUCT CONTAINS ENCAPSULATED METAL POWDER WHICH CONTAINS COPPER AND ZINC . NO EXPOSURE TO FREE METAL POWDER IS ANTICIPATED DURING NORMAL APPLICATION OF THIS PRODUCT. METAL POWDER MAY BE RELEASED, HOWEVER, BY GRINDING OR MACHINING OF CURED COMPOUND OR COATED SURFACE. REPEATED OR PROLONGED OVEREXPOSURE TO METAL DUST MAY CAUSE METAL-FUME FEVER, METALLIC TASTE, AND DISCOLO RATION OF THE SKIN AND HAIR. REFER TO PROTECTIVE EQUIPMENT SECTION FOR APPROPRIATE PROTECTIVE MEASURES.

===== Disposal Considerations =====

Waste Disposal Methods:REVIEW ALL CURRENT FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING HEALTH AND DISPOSAL FOR APPROPRIATE DISPOSAL PROCEDURES. INCINERATION PREFERRED.

===== MSDS Transport Information =====

Transport Information:OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) CERCLA - SARA HAZARD CATERGORY: THIS PRODUCT HAS BEEN HAS BEEN REVIEWED AND IS CONSIDERED, UNDER APPLICABLE DEFINI TIONS, TO MEET

THE FOLLOWING

CATEGORIES: IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD. SARA SECTION 313: THIS PRODUCT CONTAINS THE FOLLOWING CATEGORIES: IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD SARA SECTION 313: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 AND 40 CFR PART 372: ****

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===== Regulatory Information =====

SARA Title III Information:****CHEMICAL NAME COPPER CAS NUMBER 4770-

50-8 LESS THAN 25.0%. TOXIC SUBSTANCES CONTROL ACT: THE CHEMICAL SUBSTANCES IN THIS PRODUCT ARE ON THE TSCA SECTION 8 INVENTORY. THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12 (B) IF EXPORTED FROM THE UNITED STATES: NONE NEW JERSEY RIGHT-TO-KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT: FATTY ACIDS, TALLOW, CALCIUM SALTS CAS NUMBER: 64755-01-7 ***

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State Regulatory Information: PENNSYLVANIA RIGHT-TO-KNOW: THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%: CHEMICAL NAME: FATTY ACIDS, TALLOW, CALCIUM SALTS CAS NUMBER 64755-01-7 HAYDROTREATED HEAVY PARAFFINIC DIST 64742-54-7 CALIFORNIA PROPOSITION 65: WARNING: THE CHEMICAL(S) NOTED BELOW AND CONTAINED IN THIS PRODUCT, ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: NONE KNOWN

WV VOC CONTENT: =