

FEL-PRO CHEMICAL PRODUCTS LP -- C-5 ANTISEIZE, ANTI-SEIZE LUBRICANT (FORMERLLY ON-N-OFF) -- 8030-00-597-5367

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

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

MSDS Date:02/10/1998

FSC:8030

NIIN:00-597-5367

Status Code:A

MSDS Number: CKHXQ

=== Responsible Party ===

Company Name:FEL-PRO CHEMICAL PRODUCTS LP

Address:3412 WEST TOUHY AVE

Box:UNKNOWN

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

ACGIH TLV:2.5 MG/M3

Ingred Name:DISTILLATES (PETROLEUM), HYDRO

TREATED 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 #:VV7330000

Fraction by Wt: 0.2%

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.1 MG

/M3

===== 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 CAUSE IRRITATION. ACUTE EFFECTS INHALATION: INHALATION O

F 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 PNEUMOCONIOSIS. 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.

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===== 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 OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL

CAL
REGULATIONS.

===== 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.**

===== 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 MANUFAC

TURER'S RECOMMEDATIONS.

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 CONTAINR IS EMPTIED.

Supplemental Safety
and Health

===== 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

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

Stability Indicator/Materials to Avoid:YES

STRONG LEWIS OR MINERAL ACIDS. STRONG BASES OR OXIDANTS. NITRATES,
NI

TRITES, 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 Information:** 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, A ND 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 CHRON

IC 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: ****

===== 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 *****

State Regulatory Information:*****PENNSYLVANIA RIGHT-TO-KN
OW: 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 HYDRATED 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 VOC CONTENT: =