

FEL-PRO CHEMICAL PRODUCTS LP -- C5-A -- 9150-01-330-1503

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

Product ID:C5-A

MSDS Date:06/12/1992

FSC:9150

NIIN:01-330-1503

MSDS Number: BVYKY

=== Responsible Party ===

Company Name:FEL-PRO CHEMICAL PRODUCTS LP

Address:7450 NORTH MCCORMICK BLVD

Box:1205

City:SKOKIE

State:IL

ZIP:60076-8205

Country:US

Info Phone Num:708-674-7700;303-289-5651

Emergency Phone Num:708-67

4-7700;800-424-9300(CHEMTREC)

Preparer's Name:CATHY GRIFFITH

CAGE:GO402

=== Contractor Identification ===

Company Name:FEL-PRO CHEMICAL PRODUCTS DIV OF FELT PRODUCTS

Address:7450 N MCCORMICK

Box:1205

City:SKOKIE

State:IL

ZIP:60076-8205

Country:US

Phone:303-289-5651

CAGE:GO402

Company Name:FEL-PRO INC DIV OF FELT PRODUCTS MFG CO

Address:7450 N MCCORMICK

Box:1103

City:SKOKIE

State:IL

ZIP:60076-4046

Country:US

Phone:847-674-7700 OR 312-761-4500

CAGE:73165

===== Composition/Information on

Ingredients =====

Ingred Name:MINERAL OIL, HYDROTREATED (SEVERE), HEAVY NAPHTHENIC
DISTILLATE, PETROLEUM; (PETROLEUM OIL)

CAS:64742-52-5

RTECS #:PY8035001

Fraction by Wt: 40-60%

OSHA PEL:5 MG/M3 (MFR)

ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:COPPER; (COPPER FLAKE) (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 20-40%

OSHA PEL:0.1MG/M3 FUME;1 DUST

ACGIH TLV:0.2 MG/M3 FUME

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:SILICA, CRYSTALLINE - QUARTZ; (SILICON DIOXIDE
(ENCAPSULATED))

CAS:14808-60-7

RTECS #:VV7330000

Fraction by Wt: 1-3%

OSHA PEL:10 MG/M3 RDUST

ACGIH TLV:0.1 MG/M3 RDUST

Ingred Name:GRAPHITE

CAS:7782-42-5

RTECS #:MD9659600

Fraction by Wt: 10-20%

OSHA PEL:15 MPPCF

ACGIH TLV:2 MG/M3 RDUST

Ingred Name:VOLATILE ORGANIC COMPONENT: 0.0 LBS/GAL BY WT.

RTECS #:9999999VO

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:SUPP DATA:FUMES MAY CAUSE LUNG INJURY.

RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:BELOW HIPS TO AVOID ASPIRATION OF VOMITUS
INTO L

UNGS. OBTAIN IMMEDIATE MEDICAL ATTENTION.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE:EYES:MILD IRRIT. NO PERM CORNEAL
INJURY LIKELY. SKIN:MILD IRRIT. MAY CAUSE DEFAT & REDNESS.

INHAL:RESP IRRIT WHEN HEATED TO HIGH TEMPS. MATL ASPIRATED INTO

LUNGS MAY CAUSE CHEM PNEUM. INGEST:MAY CAUSE NAUS & VOMIT.

CHRONIC:THIS PROD CONTAINS ENCAPSULATED SILICON DIOXIDE (QUARTZ)
WHICH HAS BEEN (EFTS OF OVEREXP)

Explanation of Carcinogenicity:SILICA, CRYSTALLINE-QUARTZ:IARC

MONOGRAPHS, SUPP, VOL 7, PG 341, 1987:GRP 2A. NTP 7TH ANNUAL REPORT
ON CARCINS, (SUPDAT)

Effects of Overexposure:HLTH HAZ:LISTED AS SUSPECTED HUMAN CARCIN VIA
INHAL. NO EXPOS TO FREE RESPIRABLE QUARTZ IS ANTIC DURING NORMAL
USE OF THIS PROD. QUARTZ MAY BE

RELS, HOWEVER, BY

GRINDING/MACHINING OF CURED CMPD. RPTD & PRLNG OVEREXP TO FREE
RESPIRABLE QUARTZ MAY CAUSE SILICOSIS/OTHER SERIOUS DELAYED LUNG
INJURY. THIS PROD (SUPP DATA)

Medical Cond Aggravated by Exposure:PREEXISTING PULMONARY &

DERMATOLOGICAL DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO HAZARDOUS
COMPONENTS.

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

First Aid:EYES:FLUSH W/PLENTY OF WATER FOR AT LST 15 MINS. OBTAIN IMMED
MED ATTN. SKIN:

REMOVE CONTAM CLTHG. WASH AFFECTED AREA(S) THORO

W/SOAP & WATER. CONSULT MD. INHAL:REMOVE TO FRESH AIR. IF BRTHG IS
DFCLT, GIVE OXYGEN. ADMIN ARTF RESP IF NOT BRTHG. OBTAIN MED ATTN.

INGEST:DO NOT INDUCE VOMIT. GIVE WATER/MILK IF VICTIM IS CONSCIOUS
& NOT DROWSY. SHOULD VOMIT OCCUR, BE SURE TO KEEP VICTIM'S HEAD
(ING 7)

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

Flash Point Method:PMCC

Flash Point:>300F,>149C

Extinguishing Media:FOAM, CO*2, DRY CH

EMICAL.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT . USE WATER TO COOL EXPOS CNTNRS. WATER STREAM DIRECTED INTO FIRE MAY CAUSE FROTHING W/ (SUPDAT)

Unusual Fire/Explosion Hazard:COMBUST LIQ - CLASS IIIB. IRRIT &/OR TOX GASES/FUMES MAY BE GENERATED BY THERMAL DECOMP/COMBUST. CLSD CNTNRS MAY RUPTURE/EXPLODE (DUE TO PRESS BUILD-UP)(SUPDAT)

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

Spill Release Procedures:VENTILATE AREA. WEAR APPROPRIATE PROTECTIVE EQUIPMENT DURING CLEANUP. CONTAIN SPILL. ABSORB W/INERT MATERIAL SUCH AS VERMICULITE. PLACE INTO CONTAINERS W/LIDS. COVER LOOSELY & REMOVE TO APPROPRIATE WASTE AREA. WASH SPILL AREA.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:FOR PROFESSIONAL USE ONLY. DO NOT TAKE INTERNALLY. AVOID CONTACT W/EYES, SKIN & CLOTHING. AVOID BREATHING VAPOR, DUST, MIST.

Other Precautions:KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:IF THE TLV IS EXCEEDED, IF USE IS PERFORMED IN A POORLY VENTILATED SPACE OR AREA W/LIMITED VENTILATION, USE A NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR I/A/W 29 CFR 1910.130.

Ventilation:LOCAL EXHAUST AS NEEDED TO CONTROL VAPOR/DUST LEVELS TO BELOW RECOMMENDED LIMITS.

Protective Gloves:CLOTH OR SYNTHETIC GLOVES.

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGLES .

Other Protective Equipment:CLEAN PROTECTIVE CLOTHING. EMERG EYE WASH AND DELUGE SHOWER WHICH MEETS ANSI DESIGN CRITERIA .

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC:SUBSEQUENT SPREAD OF FIRE. EXPLO HAZ:WHEN EXPOS TO EXTREME HEAT. EXPLAN OF CARCIN:1994:ANTIC TO BE CARCIN. EFTS OF OVEREXP:CONTAINS ENCAPSULATED GRAPHITE & COPPER. NO EXPOS TO FREE RESPIRABLE COPPER/GRAPHITE

IS ANTIC DURINGNORMAL USE OF THIS PROD
CMPD. RPTD/PRLNG OVEREXP TO COPPER/GRAPHITE DUST/(ING 6)

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

Vapor Density:HVR/AIR

Spec Gravity:1.3

pH:NEUT

Evaporation Rate & Reference:SLOWER/N-BUTYL ACETATE

Solubility in Water:NEGLIGIBLE (