

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : **C-5A ANTISEIZE**
IDENTIFICATION NUMBER: 51001,51002,51004-51012,51144,51146,51147
PRODUCT USE/CLASS : Lubricant
NATIONAL STOCK NUMBER: 8030-00-200-3782; 4oz 8030-00-059-2761; 1 lb 803000-155-6444, 8030-00-180-6187, 8030-00-251-3980, 8030-00-844-7368; 2.5lb 8030-00-597-5367; 81b 8030-00-286-5453
SUPPLIER: Fel-Pro Chemical Products, L.P. **MANUFACTURER:** Fel-Pro Chemical Products, L.P.
 3412 West Touhy Avenue 3412 West Touhy Avenue
 Lincolnwood, IL 60645 Lincolnwood, IL 60645
EMERGENCY TELEPHONE: 800-424-9300 **EMERGENCY TELEPHONE:** 800-424-9300 24 hrs. 24 hrs.
PREPARER: Cathy Griffith, **PHONE:** 303-289-5651, **PREPARE DATE:** 03/27/96

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	LESS THAN WT/WT
01	Graphite	7782-42-5	20.0 %
02	Hydrotreated petroleum distillates	64742-52-5	25.0 %
03	Copper	7440-50-8	25.0 %
04	Petroleum distillate	64742-18-3	15.0 %
05	Silicon dioxide (encapsulated)	14808-60-7	0.2 %

EXPOSURE LIMITS

ITEM	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL	TLV-TWA	SKIN
01	2.5 mg/m3	N.E.	2.5 mg/m3	N.E.	N.E.	NO
02	N.E.	N.E.	N.E.	N.E.	N.E.	NO
03	1mg/m3	N.E.	1mg/m3	N.E.	N.E.	NO
04	5mg/m3	10mg/m3	5mg/m3	N.E.	N.E.	NO
05	0.1 mg/m3	N.E.	0.1 mg/m3	N.E.	0.1 mg/m3	NO

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful if swallowed. At elevated temperatures may cause irritation of the eyes and respiratory 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 of dust at levels above recommended exposure limits may cause metallic or sweet taste, irritation of pharynx, and possible ulceration with perforation of the nasal septum. **ACUTE EFFECTS - INGESTION:** Moderately toxic. Irritating to mouth, throat and stomach, with nausea. **EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** *Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components. *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. *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 suspected human carcinogen by NTP and IARC. 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 respirator when grinding or machining coating or coated items. EFFECTS OF OVEREXPOSURE - 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 discoloration of the skin and hair. Refer to protective equipment section for appropriate protective measures.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, INHALATION, INGESTION, EYE CONTACT,

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN CONTACT: 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. NOTES TO PHYSICIAN: No Information.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 300 F
(PENSKY-MARTENS C.C.)

AUTOIGNITION TEMPERATURE: No Data

LOWER EXPLOSIVE LIMIT: 1.0 %

UPPER EXPLOSIVE LIMIT: 6.0 %

EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: 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.

SPECIAL FIREFIGHTING PROCEDURES: 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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Reclaim clean material. Contaminated material should be swept or shoveled into appropriate waste container and disposed of in accordance with applicable federal, state and local regulations.

SECTION 7 - HANDLING AND STORAGE

HANDLING: 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.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation usually adequate. 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.

SKIN PROTECTION: Clean clothing to cover skin. Cloth or synthetic gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Accessible eye wash and safety shower.

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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	550	4215 F	VAPOR DENSITY	Is heavier than air
ODOR	Slight	Petroleum	ODOR THRESHOLD	No Data
APPEARANCE	Copper	colored	EVAPORATION RATE:	Is slower than Butyl
SOLUBILITY IN H2O	Insoluble			Acetate
FREEZE POINT	NA		SPECIFIC GRAVITY:	1.3017
VAPOR PRESSURE	NA		pH @ 0.0	NA
PHYSICAL STATE	Paste		VISCOSITY	High

COEFFICIENT OF WATER/OIL DISTRIBUTION: NA

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Prolonged exposure to heat.

INCOMPATIBILITY: Strong Lewis or mineral acids. Strong bases or oxidants. Nitrates, nitrites, chlorinated hydrocarbons, chlorides, palladium, selenium, manganese, magnesium + potassium chlorate, sodium carbonate, sulfates, diborane.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon. Various hydrocarbons. HAZARDOUS

POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL TEST DATA: No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. Incineration preferred.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated

DOT TECHNICAL NAME: NA

DOT HAZARD CLASS: NA

HAZARD SUBCLASS: NA

DOT UN/NA NUMBER: NA PACKING GROUP: NA RESP. GUIDE PAGE:
IMDG/OCEAN INFORMATION: Not regulated.
IATA/ICAO/AIR INFORMATION: Not regulated.

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SECTION 15 - REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY: This product has been reviewed and Is considered, under applicable definitions, to meet 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:

-----	CHEMICAL NAME	-----	CAS NUMBER	WT/WT %	IS LESS THAN
Copper			7440-50-8		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:

-----	CHEMICAL NAME	-----	CAS NUMBER
Fatty acids, tallow, calcium salts			64755-01-7

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

-----	CHEMICAL NAME	-----	CAS NUMBER
Fatty acids, tallow, calcium salts			64755-01-7
Hydrotreated heavy paraffinic dist			64742-54-7

CALIFORNIA PROPOSITION 65: WARNING: The chemicals 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

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: D2B, D2A

COMPONENT RCRA CLASSIFICATIONS: Not regulated COMPONENT RCRA CODES: No Information.

CERCLA RQ VALUE (MINIMUM): none

CHIP SUPPLY LABEL RISK PHRASES: NONE REQUIRED

CHIP SUPPLY LABEL SAFETY PHRASES: none required

CHIP SUPPLY LABEL SYMBOLS: No Information.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0 PREVIOUS MSDS REVISION DATE: 01/22/96

REASON FOR REVISION: update silica info

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

ABBREVIATIONS: ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = US Occupational Health and Safety Administration; UK = United Kingdom; TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs); STEL = Short-Term Exposure Limit (15 min); C = Ceiling Value; PEL = Permissible Exposure Limit

DISCLAIMER: To the best of our knowledge, the information contained in this MSDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

<END OF MSDS>