



**ANTI-SEIZE TECHNOLOGY**  
A.S.T. Industries, Inc.

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# COP-GRAF™

## Copper and Graphite Based ANTI-SEIZE COMPOUND

STOCK # ('S): 112CC,114CC, 11002,11003, 11005,11008,11010, 11015,11016,11018,  
11019, 11025,11030,11050, 11130,11425

# MATERIAL SAFETY DATA SHEET

### Section 1- Chemical Product and Company Identification

**Manufacture:** Anti-Seize Technology  
2345 N. 17<sup>th</sup> Ave.  
Franklin Park, IL 60131

**Phone:** 847-455-2300

**Emergency Phone, 24 hr:** Infotrac @ 1-800-535-5053 or 352-323-3500

### Section 2-Composition/ Information on Ingredients

	CAS #	OSHA PEL,	TLV	SARA III	PROP 65,	PERCENT
COPPER, AS FUME OR DUST	7440-50-8	1mg/m3	SAME	YES	NO	20 to 35
PETROLEUM GREASE/OIL	64742-62-7	5mg/m3	SAME	NO	NO	35 to 60
GRAPHITE	7782-42-5	2.5mg/m3	SAME	NO	NO	10 to 20
SILICA, CRYSTALLINE QUARTZ	14808-60-7	0.1 mg/m3	SAME	NO	NO	< 1

### Section 3- Hazard Identification

**ROUTES OF ENTRY:**  SKIN  EYES  INHALATION  INGESTION

**HEALTH HAZARDS:** THIS PRODUCT IS NOT PARTICULARLY TOXIC. AS WITH ANY PETROLEUM BASED PRODUCT, SKIN IRRITATION CAN OCCUR IF PROLONGED OR REPEATED SKIN CONTACT OCCURS. KEEP OUT OF OPEN WOUNDS. AVOID BREATHING LARGE QUANTITIES OF THE THERMAL DECOMPOSITION FUMES.

### Section 4 – First Aid Measures

**SKIN:** WASH WITH SOAP AND WATER, USE A NAIL BRUSH. APPLY A SKIN LOTION

**EYES:** THIS PRODUCT COULD CAUSE SOME MECHANICAL IRRITATION IF GOTTEN INTO THE EYES AND RUBBED. FLUSH EYE WITH WATER FOR A TRUE 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

**INGESTION:** IF INGESTED THIS PRODUCT IS NOT EXPECTED TO CAUSE AN ACUTE REACTION. THIS PRODUCT CONTAINS PETROLEUM OIL; **DO NOT INDUCE VOMITING** BECAUSE THE OIL MAY BE ASPIRATED INTO THE LUNGS. CONSULT A PHYSICIAN OR POISON CONTROL CENTER.

**INHALATION:** NOT LIKELY UNDER NORMAL CONDITIONS OF USE. IF USING IN HIGH TEMPERATURE APPLICATIONS WHERE THERMAL DECOMPOSITION IS LIKELY, USE LOCAL EXHAUST TO KEEP DOWN FUMES. IF DIZZINESS OCCURS, SEEK FRESH AIR.

**CHEMICAL ('S) LISTED AS CARCINOGENS**

NPT\_NO \_\_\_ I.A.R.C. NO \_\_\_ OSHA\_NO \_\_\_

### Section 5 – Fire Fighting Measures

**FLASH POINT AND METHOD USED** > 350 F. , C.O.C.

**FLAMMABLE LIMITS:** LEL\_NO DATA \_\_\_ UEL: \_\_\_NO DATA\_\_\_

**EXTINGUISHING MEDIA:** FOAM, CO2, DRY CHEMICAL

**SPECIAL FIRE FIGHTING PROCEDURES:** THIS COMPOUND WILL NOT BURN UNLESS IT IS PRE-HEATED. WATER FOG MAY BE USED TO COOL THE CONTAINERS, HOWEVER FROTHING MAY OCCUR IF WATER IS SPRAYED DIRECTLY INTO A BURNING CONTAINER.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** DENSE SMOKE MAY BE GENERATED; SPILLED CONTENTS MAY CAUSE EXTREMELY SLIPPERY FLOORS. NOXIOUS OR TOXIC FUMES MAY BE FORMED IN A FIRE. WEAR SELF-CONTAINED BREATHING APPARATUS.

### Section 6 – Accidental Release Measures

**SPILL/ LEAKAGE PROCEDURES:** BECAUSE OF THE VISCOUS NATURE OF THIS PRODUCT, SPILLS ARE UNLIKELY. SCOOP IT BACK INTO THE CONTAINER. COPPER IS LISTED AS A HAZARDOUS WATER POLLUTANT.

### Section 7 – Handling and Storage

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** KEEP CONTAINER CLOSED. STORE AWAY FROM HIGH HEAT, OPEN FLAMES, STRONG OXIDIZERS.

**OTHER PRECAUTIONS:** KEEP AWAY FROM CHILDREN

### Section 8 – Exposure Controls / Personal Protection

**RESPIRATORY PROTECTION:** NORMALLY NOT REQUIRED. IF THIS PRODUCT IS BEING USED IN HIGH TEMPERATURE APPLICATIONS WHERE THE PRODUCT "SMOKES" USE A LOCAL EXHAUST, OR VENTILATE THE AREA TO MAINTAIN THE AIR QUALITY OR USE A N.I.O.S.H. APPROVED ORGANIC VAPOR RESPIRATOR.

**PROTECTIVE GLOVES:** NORMALLY NOT REQUIRED. IF PROLONGED OR REPEATED SKIN CONTACT IS EXPECTED USE AN OIL RESISTANT GLOVE SUCH AS LATEX OR NEOPRENE.

**EYE PROTECTION:** RECOMMENDED

**WORK/HYGIENIC PRACTICES:** THOROUGHLY WASH WITH SOAP AND WATER, USING A NAIL BRUSH. REMOVE ALL MATERIAL.

### Section 9 – Physical and Chemical Properties

**BOILING POINT:** DOES NOT APPLY

**MELTING POINT:** DOES NOT APPLY

**VAPOR PRESSURE:** NO DATA

**EVAPORATION RATE:** DOES NOT APPLY

**APPEARANCE AND ODOR:** COPPER COLORED PASTE, GREASE ODOR

**SOLUBILITY IN WATER:** NIL

**REACTIVITY IN WATER:** NONE

**SPECIFIC GRAVITY:** 1.2

**PERCENT VOLATILE:** 0

### Section 10 – Stability and Reactivity

**STABILITY:** (X) STABLE ( ) UNSTABLE

**CONDITIONS TO AVOID:** NONE REASONABLY FORESEEN

**INCOMPATIBILITY:** STRONG OXIDIZING AGENTS, BROMATES, CHLORATES, IODATES

**HAZARDOUS DECOMPOSITION PRODUCTS:** THE THERMAL DECOMPOSITION BY-PRODUCTS ARE HIGHLY DEPENDENT UPON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLIDS AND FUMES WILL BE GENERATED; SOME OF WHICH MAY BE NOXIOUS OR TOXIC GASES.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR.

### Section 11 – Toxicological Information

SEE SECTION 2 FOR ADDITIONAL INFORMATION AND EXPOSURE LIMITS

### Section 12 – Ecological Information

NO ADDITIONAL INFORMATION IS AVAILABLE. THIS PRODUCT IS NOT EXPECTED TO BIOACCUMULATE.

### Section 13 – Disposal Consideration

**WASTE DISPOSAL:** DISPOSE OF IN A RESPONSIBLE MANNER. FOLLOW LOCAL, STATE AND FEDERAL GUIDELINES. DO NOT DISCHARGE INTO SEWERS OR WATERWAYS. INCINERATION IS THE PREFERRED METHOD OF DISPOSAL, ALTHOUGH IT MAY BE LANDFILLED AT AN APPROVED FACILITY.

### Section 14- Transport Information

**TRANSPORTATION BY LAND (49CFR):** NOT REGULATED

**TRANSPORTATION BY AIR (ICAO/IATA):** NOT REGULATED

**TRANSPORTATION BY SHIP (IMO/IMDG):** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE (CONTAINS COPPER), LIQUID, N.O.S. , CLASS 9, MARINE POLLUTANT, PACKAGING GROUP 3

**WHMIS:** CONTROLLED IN CANADA. SUBDIVISION B OF DIVISION 2, CLASS D, (CONTAINS COPPER)

### Section 15 – Regulatory Information

**CALIFORNIA PROPOSITION 65:** NO

**OZONE DEPLETING SUBSTANCES:** NONE

**SARA TITLE III:** COPPER

**CERCLA:** COPPER

**RCRA:** NO

**DOT SHIPPING CLASS:** NOT HAZARDOUS

**TASCA INVENTORY :** ALL INGREDIENTS LISTED

**NFPA RATING:** H-1, F-2, R-0

### Section 16 – Other Information:

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS OBTAINED FROM THE USE OF HIS PRODUCT. THEREFORE, BECAUSE THE PRODUCT MAY BE USED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO LIABILITY FOR ITS USE.

**DATE:** 1/15/2009

**COP-GRAF, ISO MSDS, 16 PARTS**