



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

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# AST- RTV™ SILICONE NEUTRAL CURE

STOCK # ('S): 27101

## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

**MANUFACTURE:** ANTI-SEIZE TECHNOLOGY

2345 N. 17th. Ave.

FRANKLIN PARK, IL. 60131

**TELEPHONE #:** 847-455-2300

**24 Hr. EMERGENCY #:** INFOTRAC@ 1-800-535-5053

### SECTION II - COMPOSITION

	CAS #	OSHA PEL,	TLV	SARA III	PROP 65,	PERCENT
METHYL TRIS (METHYLETHYLKETOXIME ) SILANE		22984-54-9	SEE COMMENTS BELOW			3 - 5
VINYL TRIS (METHYLETHYLKETOXIME) SILANE		2224-33-1	SEE COMMENTS BELOW			0 -1
SILICA, AMORPHOUS	7631-86-9	80 mg/m3				10
NON-HAZARDOUS POLYMER	70131-67-8	NOT ESTABLISHED		NO	NO	87

Comments: A) Canada - Respirable mass; Total mass respectively. B) OSHA - PEL table Z-3: Millions of particles per cubic foot of air. C) OSHA - PEL Table Z-3: 80mg/m3. Under normal conditions of use no respirable silica particles should be released from this product. As a by-product of cure up to 4% methylethylketoxime (MEKO, CAS # 96-29-7) is formed on contact with water or humid air. Provide adequate ventilation to control exposures within the following guidelines: Vendor guideline TWA: 3PPM , STEL: 10ppm, ; AIHA WEEL TWA; 10 ppm.

### SECTION III - PHYSICAL PROPERTIES

**BOILING POINT:** DOES NOT APPLY

**MELTING POINT:** DOES NOT APPLY

**VAPOR DENSITY ( AIR = 1):** NO DATA

**EVAPORATION RATE (BUTYL ACETATE = 1):** < 1

**APPEARANCE AND ODOR:** Solid Paste, Oxime odor.

**SOLUBILITY IN WATER:** Less than 0.1%

**REACTIVITY IN WATER:** Causes curing

**SPECIFIC GRAVITY:** 1.04

**PERCENT VOLATILE:** Less than 5 %.

### SECTION IV - FIRE AND EXPLOSION DATA

**FLASH POINT (Method used):** Not applicable - solid

**FLAMMABLE LIMITS:** LEL: NO DATA UEL: NO DATA

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

**SPECIAL FIRE FIGHTING PROCEDURES:** Self contained breathing apparatus and protective clothing should be worn is fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool..

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: metal oxides, silicone dioxide, carbon oxides and traces of incompletely burned carbon compounds, nitrogen oxides, formaldehyde. .

### SECTION V- PHYSICAL HAZARDS

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

**CONDITIONS TO AVOID:** . none known.

**INCOMPARABILITY ,(MATERIALS TO AVOID):** Oxidizing material can cause a reaction. Water, moisture, or humid air causes curing and the liberation of methylethylketoxime vapors as described in section 2.

**HAZARDOUS DECOMPOSITION PRODUCTS:** See Section IV. under "Unusual Fire and Explosion".

**HAZARDOUS POLYMERIZATION:** Will not occur.

### SECTION VI - HEALTH HAZARDS AND FIRST AID

**ROUTES OF ENTRY:** X SKIN X EYES X INHALATION \_\_\_\_\_ INGESTION

**HEALTH HAZARDS:** READ THE WARNING LABELS ON THE CAN FOR ADDITIONAL INFORMATION.

**EFFECTS OF OVEREXPOSURE:**

**ACUTE EFFECTS**

Eye: Direct contact irritates slightly with redness and swelling

Skin: A single short exposure ( less than 24 hr.) may irritate. Repeated prolonged contact ( 24 to 48 hr.) may irritate moderately. Product contains oximes which are possible skin sensitizers.

Inhalation: Vapor overexposure may cause drowsiness, injure blood, liver and may irritate eyes, nose and throat.

Oral: Small amounts transferred to the mouth by finger during use, etc. should not injure. Swallowing large amounts may injure slightly.

**Repeated Exposure Effects:**

Same as above.

**SPECIAL HAZARDS:**

This material contains the following components with the special hazards listed below;

Carcinogen: none known, Tetrogens: non known, Mutagens None known, Reproductive toxins : None known

Sensitizers: CAS # 22984-54-9 Methyl tris ( methylethylketoxime ) silane 3 - 5 % Possible skin sensitizer

CAS # 2224-33-1 Vinyl tris ( methylethylketoxime ) silane

Comments: Methylethylketoxime ( MEKO, CAS# 96-29-7) is formed upon contact with water or humid air. Male rodents exposed to MEKO vapor throughout their lifetime developed liver cancer. Additional testing is planned by the MEKO supplier to determine any relevance to humans. Until more data is known, exposure levels should be maintained as low as achievable.

This product contains polydimethylsiloxane ( silicone) and when heated to temperatures above 150 c. in the presence of air, silicones can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA permissible exposure limit for formaldehyde.

The above listed potential effects of overexposure are based on actual data, results of studies performed on similar compositions , components data and / or expert review of the product. Overexposure to any chemical may result in enhancement of preexisting adverse medical conditions and allergic reactions.

**EMERGENCY FIRST AID PROCEDURES**

**SKIN:** WASH WITH SOAP AND WATER, USING A NAIL BRUSH . PAY PARTICULAR ATTENTION TO FINGER NAILS AND OPEN WOUNDS.

**EYES:** FLUSH EYE WITH WATER FOR 15 MINUTES, LIFTING THE EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

**INGESTION:** NOT A LIKELY ROUTE OF EXPOSURE, DO NOT INDUCE VOMITING, . USE A GASTRIC LAVAGE, AND CALL A POISON CONTROL CENTER OR A PHYSICIAN.

**INHALATION:** THE SOLVENTS AND/OR PROPELLANTS IN THIS PRODUCT MAY EFFECT THE RESPIRATORY TRACT OR CENTRAL NERVOUS SYSTEM. AVOID OVEREXPOSURE. DIZZINESS OR RESPIRATORY IRRITATION ARE SIGNS OF OVEREXPOSURE. SEEK FRESH AIR. OR FOLLOW OTHER STANDARD MEDICAL PRACTICES..

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

NPT ? : NO I.A.R.C. ? : NO OSHA ? : NO

**SECTION VII - SPECIAL PRECAUTIONS AND SPILL PROCEDURES**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Use with adequate ventilation. or use an organic vapor respirator. Product evolved MEKO when exposed to water or humid air. .

**OTHER PRECAUTIONS:** **Keep containers closed and store away from moisture** . KEEP AWAY FROM CHILDREN.

**SPILL/ LEAKAGE PROCEDURES:** Use an organic vapor respirator and rubber gloves for small spills. Use organic vapor respirator or self contained breathing apparatus or air supplied respirator, rubber gloves,, for large spills

**WASTE DISPOSAL:** Not considered a hazardous waste. DISPOSE OF IN A RESPONSIBLE MANNER. FOLLOW LOCAL, STATE AND FEDERAL GUIDELINES. DO NOT DISCHARGE INTO SEWERS OR WATERWAYS. REFER TO OTHER SECTIONS OF THIS MSDS FORM FOR ADDITIONAL INFORMATION

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** NORMALLY NOT REQUIRED. AVOID BREATHING VAPORS. IN RESTRICTED AREAS, USE A LOCAL EXHAUST TO REMOVE VAPORS, AND MAINTAIN AIR QUALITY. IF TLV'S ARE ABOVE ACCEPTABLE LIMITS USE A SELF CONTAINED BREATHING APPARATUS.

**PROTECTIVE GLOVES:** NORMALLY NOT REQUIRED RUBBER GLOVES IF PROLONGED SKIN CONTACT IS EXPECTED.

**EYE PROTECTION:** SAFETY GLASSES WITH SIDE SPLASH SHIELDS ARE RECOMMENDED.

**WORK/HYGIENIC PRACTICES:** USE GOOD STANDARD PRACTICES WHEN USING THIS MATERIAL. DO NOT EAT OR SMOKE WHILE USING, AND THOROUGHLY WASH WITH SOAP AND WATER, USING A NAIL BRUSH AFTER USING.

**SECTION IX - REGULATORY INFORMATION.**

RCRA Hazard Class ( 40 cfr 261)

Not a hazardous waste, No Waste Code, Not ignitable, corrosive or reactive

D.O.T. No proper shipping name, No hazard class, No UN Number, No packaging group.

EPA SARA Title III Chemical Listings: Section 302: none, Section 304 CERCLA: none, Section 312, Acute hazard, yes, Chronic hazard, Yes, Fire , no, pressure, no Reactivity ,no.

Section 313 Toxic Chemicals: None present or none present in regulated quantities.

Supplemental: Proposition 65: none known

**SECTIONIX - DISCLAIMER**

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 THIS PRODUCT. THEREFORE, BECAUSE THE PRODUCT MAY BE USED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO LIABILITY FOR IT'S USE.

**DATE PREPARED:3/25/04**

**AST-RTV,NEUTRAL CURE**