

VALCO CINCINNATI CONSUMER PRODUCTS INC.
MATERIAL SAFETY DATA SHEET
MATERIAL NAME: VALCO EXTREME ALL-IN-ONE-SILICONE (710XX145, 710XX146)
EMERGENCY TELEPHONE NO.: CALL INFOTRAC AT 1-800-535-5053
PRODUCT INFORMATION NO.: (513) 874-6550
DATE ISSUED: AUGUST 2009

SECTION I – GENERAL INFORMATION

DISTRIBUTED BY: VALCO CINCINNATI, INCORPORATED
ADDRESS: 411 CIRCLE FREEWAY DRIVE, CINCINNATI, OHIO 45246
TRADE NAME & SYNONYMS: 1217F-GM ONE COMPONENT SILICONE RUBBER COMPOUND
HEALTH (NFPA): 2 **FLAMMABILITY (NFPA):** 1 **REACTIVITY (NFPA):** 0
HMIS RATING: HEALTH: 1 **FLAMMABILITY:** 1 **PHYSICAL HAZARD:** 1
TRANSPORTATION INFORMATION: Not subject to DOT, IMDG or IATA Regulations
SHELF LIFE: 1 YEAR

SECTION II – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: PRODUCT GENERATES MEKO UPON CONTACT WITH WATER OR HUMID AIR. IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. MAY CAUSE SENSITIZATION. POSSIBLE CANCER HAZARD.

POTENTIAL HEALTH EFFECTS

EYES: DIRECT CONTACT MAY CAUSE SLIGHT IRRITATION WITH REDNESS AND SWELLING.
SKIN: REPEATED OR PROLONGED CONTACT WITH SKIN MAY CAUSE SLIGHT IRRITATION LEADING TO DERMATITIS. PRODUCT CONTAINS OXIMES WHICH ARE POSSIBLE SKIN SENSITIZERS.
INGESTION: NOT A LIKELY ROUTE OF ENTRY. SWALLOWING SMALL AMOUNTS SHOULD NOT CAUSE INJURY. SWALLOWING LARGE AMOUNTS MAY CAUSE INTERNAL INJURY.
INHALATION: OVEREXPOSURE TO THE VAPOR OF THE CURING BY-PRODUCT, MEKO, CAN CAUSE DROWSINESS, AND MAY IRRITATE NOSE AND THROAT.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: OVEREXPOSURE TO MEKO, A CURING BY-PRODUCT, CAN CAUSE DROWSINESS, BLOOD AND LIVER INJURY, AND MAY IRRITATE THE NOSE AND THROAT.
CARCIINOGENICITY: THIS PRODUCT CONTAINS MATERIALS WHICH ARE SHOWN TO BE CARCINOGENIC.
SENSITIZATION: PRODUCT CONTAINS OXIMES WHICH ARE POSSIBLE SKIN SENSITIZERS.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	WT. %	CAS#
SILOXANES AND SILICONES AND OTHER NON HAZARDOUS MATERIAL	40-60	N/A
CALCIUM CARBONATE	29-32	000471-34-1
QUARTZ	14-17	014808-60-7
SILANE, DICHLOROMETHYL-, REACTION PRODUCTS WITH SILICA	4-7	068611-44-9
2-BUTANONE, O,O',O''-(ETHENYLSILYLIDYNE) TRIOXIME	2-5	002224-33-1
TITANIUM DIOXIDE	<1	013463-67-7
CARBON BLACK	<0.1	001333-86-4

SECTION IV – FIRST AID MEASURES

EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.
SKIN: REMOVE PRODUCT FROM SKIN. IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. WASH CLOTHING BEFORE REUSE.
INGESTION: RINSE MOUTH WELL WITH WATER. NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO INGEST. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.
INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION OR GIVE OXYGEN BY TRAINED PERSONNEL. IF SIGNS OR SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION..

SECTION V – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: USE DRY CHEMICAL POWDER, CARBON DIOXIDE, WATER FOG OR FOAM.
HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES. TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS. SILICON DIOXIDE. NITROGEN OXIDES. FORMALDEHYDE. METAL OXIDES.
OTHER CONSIDERATIONS: MAY BURN IN PRESENCE OF SPARKS OR OPEN FLAMES.
FIRE FIGHTING PROCEDURES: AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND. (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.
HAZARDOUS DECOMPOSITION PRODUCTS: PRODUCT GENERATES MEKO UPON CONTACT WITH WATER OR HUMID AIR.

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SECTION VI – ACCIDENTAL RELEASE MEASURES

SMALL SPILL: USE APPROPRIATE TOOLS TO PUT THE SPILLED SOLID IN A WASTE DISPOSAL CONTAINER.

LARGE SPILL: WEAR PROPER PROTECTIVE EQUIPMENT. STOP SPILL OR LEAK AT SOURCE. USE APPROPRIATE TOOLS TO PUT THE SPILLED MATERIAL IN A WASTE CONTAINER.

RELEASE NOTES: KEEP SPILLED MATERIAL FROM ENTERING STORM DRAINS, SEWERS OR OTHER ENVIRONMENTAL MEDIUMS.

COMMENTS: DISPOSAL OF CLEAN-UP MATERIALS MAY BE GOVERNMENTALLY REGULATED. OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL WASTE MANAGEMENT REGULATIONS.

SECTION VII – HANDLING AND STORAGE

HANDLING: AVOID CONTACT WITH EYES AND SKIN. THIS MATERIAL IS A POTENTIAL SKIN SENSITIZER. WEAR APPROPRIATE PROTECTIVE EQUIPMENT. USE WITH ADEQUATE VENTILATION. WASH HANDS THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE IN A DRY, COOL, WELL-VENTILATED AREA. STORE AWAY FROM HEAT, SOURCES OF IGNITION, WATER OR MOISTURE.

SECTION VII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR TLV'S DURING THE USE OF THIS PRODUCT.

PERSONAL PROTECTION EQUIPMENT

EYES AND FACE: SAFETY GLASSES

SKIN: GLOVES (IMPERVIOUS)

RESPIRATORY: IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT

PROTECTIVE CLOTHING: CHEMICALLY IMPERVIOUS CLOTHING SHOULD BE WORN IF POTENTIAL FOR SKIN CONTACT

WORK HYGIENIC PRACTICES:

WASH HANDS BEFORE EATING, SMOKING OR USING RESTROOM. FOOD OR BEVERAGES SHOULD NOT BE CONSUMED ANYWHERE THIS PRODUCT IS HANDLED OR STORED. WASH THOROUGHLY AFTER HANDLING

OTHER USE PRECAUTIONS:

FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER

COMMENTS:

PRODUCT GENERATES METHYL ETHYL KETOXIME (MEKO) UPON CONTACT WITH WATER OR HUMID AIR.

MEKO EXPOSURE LIMITS: TWA, 3 ppm FROM VENDOR GUIDE (UNITED STATES)

AIHA TWA, 10 ppm, STEL, 10 ppm (WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL, UNITED STATES)

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: PASTE

ODOR: OXIME

COLOR: GRAY

SPECIFIC GRAVITY: 1.480

VAPOR PRESSURE: NEGLIGIBLE

VAPOR DENSITY: >1

DENSITY: 12.34 LBS/GAL

(VOC): 0.420 LB/GAL EPA METHOD 24, WEIGHT LOSS DETERMINATION

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SECTION X – STABILITY AND REACTIVITY

STABILITY: STABLE AT ROOM TEMPERATURE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS

POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: CONTACT WITH WATER, MOISTURE, OR HUMID AIR CAUSES CURING AND MEKO VAPORS FORM GRADUALLY

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES. TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS. FORMALDEHYDE. METAL OXIDES. NITROGEN OXIDES. SILICON DIOXIDE.

PRODUCT GENERATES MEKO UPON CONTACT WITH WATER OR HUMIT AIR.

SECTION XI – TOXICOLOGICAL INFORMATION

ACUTE

CHEMICAL NAME

CALCIUM CARBONATE

Titanium Dioxide

Carbon Black

**ORAL LD₅₀
(RAT)**

6450 mg/kg

6450 MG/KG

>8000 MG/KG

DERMAL

LD₅₀ (RABBIT)

500 mg

Chronic: **MEKO** – LIVER CARCINOMAS WERE OBSERVED IN A LIFETIME INHALATION STUDY (CA 2 YEARS) IN WHICH MICE AND RATS WERE EXPOSED. THESE CARCINOMAS WERE STATISTICALLY INCREASED IN AMLES AT A MEKO CONCENTRATION OF 375 ppm. RELEVANCE TO HUMANS IS UNCERTAIN. DEGENERATIVE EFFECTS ON THE OLFACTORY EPITHELIUM OF NASAL PASSAGES OCCURRED IN MALE AND FEMALE MICE AND RATS AT MEKO CONCENTRATIONS OF 15, 75, AND 375 ppm.

SECTION XII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR TLV'S DURING THE USE OF THIS PRODUCT.

PERSONAL PROTECTION EQUIPMENT

EYES AND FACE: SAFETY GLASSES

SKIN: GLOVES (IMPERVIOUS)

RESPIRATORY: IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT

PROTECTIVE CLOTHING: CHEMICALLY IMPERVIOUS CLOTHING SHOULD BE WORN IF POTENTIAL FOR SKIN CONTACT

WORK HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, SMOKING, OR USING RESTROOM. FOOD OR BEVERAGES SHOULD NOT BE CONSUMED ANYWHERE THIS PRODUCT IS BEING HANDLED OR STORED. WASH THOROUGHLY AFTER HANDLING.

OTHER USE PRECAUTIONS: FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND SAFETY SHOWER.

SECTION XIII – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: PASTE

COLOR: GRAY

VAPOR DENSITY: >1

SPECIFIC GRAVITY: 1.480

(VOC): 0.420 LB/GAL EPA METHOD 24, WEIGHT LOSS DETERMINATION

ODOR: OXIME

VAPOR PRESSURE: NEGLIGIBLE

DENSITY: 12.34 LBS/GAL

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CHEMICAL NAME	ORAL LD ₅₀ (RAT)	DERMAL LD ₅₀ (RABBIT)
CALCIUM CARBONATE	6450 mg/kg	500 mg
TITANIUM DIOXIDE	6450 mg/kg	
CARBON BLACK	>8000 mg/kg	

CHRONIC: MEKO – LIVER CARCINOMAS WERE OBSERVED IN A LIFETIME INHALATION STUDY (CA 2 YEARS) IN WHICH MICE AND RATS WERE EXPOSED. THESE CARCINOMAS WERE STATISTICALLY INCREASED IN MALES AT A MEKO CONCENTRATION OF 375 ppm. RELEVANCE TO HUMANS IS UNCERTAIN.

DEGENERATIVE EFFECTS ON THE OLFACTORY EPITHELIUM OF NASAL PASSAGES OCCURRED IN MALE AND FEMALE MICE AND RATS AT MEKO CONCENTRATIONS OF 15, 75 AND 375 ppm.

SUBCHRONIC: QUARTZ – PROLONGED INHALATION OF QUARTZ MAY RESULT IN SILICOSIS, A DISABLING PULMONARY FIBROSIS CHARACTERIZED BY FIBROTIC CHANGES AND MILIARY NODULES IN THE LUNGS, A DRY COUGH, SHORTNESS OF BREATH, EMPHYSEMA, DECREASED CHEST EXPANSION AND INCREASED SUSCEPTIBILITY TO TUBERCULOSIS. IN ADVANCED STATES, LOSS OF APPETITE, PLEURITIC PAIN, AND TOTAL INCAPACITY TO WORK. ADVANCED SILICOSIS MAY RESULT IN DEATH DUE TO CARDIA FAILURE OR DESTRUCTION OF LUNG TISSUE. THROUGH USE OF THIS PRODUCT, EXPOSURE TO INHALABLE, AIRBORNE DUST IS UNLIKELY BECAUSE THESE PARTICLES AS SOLID FILLERS ARE SUSPENDED, OR WETTED OUT, IN THE UNCURED PRODUCT. ONCE THE PRODUCT IS FULLY CURED, SOLID PARTICLE FILLERS ARE CONTAINED WITHIN THE POLYMER MATRIX AND THEIR DUST WILL NOT BE GENERATED UNDER NORMAL CONDITIONS. THEREFORE, THE POTENTIAL CARCINOGENIC RISKS TO HUMANS USING THIS PRODUCT IS CONSIDERED TO BE SMALL.**CARCINOGENICITY:**

CHEMICAL NAME	NTP STATUS	IARC STATUS	OTHER
QUARTZ	K	1	ACGIH: A2
TITANIUM DIOXIDE		3	ACGIH: A4
CARBON BLACK		2B	ACGIH: A4

NOTES: ACGIH: A2 – SUSPECTED HUMAN CARCINOGEN.

ACGIH: A4 - NOT CLASSIFIABLE AS A HUMAN CARCINOGEN

SENSITIZATION:

PRODUCT CONTAINS OXIMES WHICH ARE POSSIBLE SKIN SENSITIZERS.

TARGET ORGANS:**CARBON BLACK** - LUNGS. EFFECTS INCLUDE INFLAMMATION, FIBROSIS, TUMORS. CHRONIC TOXICITY FOUND IN RATS. TUMORS IN THE RAT LUNG ARE RELATED TO THE FINE PARTICLE OVERLOAD PHENOMENON RATHER THAN TO A SPECIFIC CHEMICAL EFFECT OF THE DUST PARTICLES IN THE LUNG. THESE EFFECTS IN RATS HAVE NOT BEEN OBSERVED IN OTHER SPECIES. EXPOSURE TO AIRBORNE CARBON BLACK DUST IS UNLIKELY DUE TO PRODUCT MATRIX.**MUTAGENICITY: MEKO** – MUTAGENIC AND TUMORIGENIC EFFECTS HAVE BEEN OBSERVED IN TESTS WITH LABORATORY ANIMALS. RELEVANCE TO HUMANS IS UNKNOWN.**SECTION XVI – ECOLOGICAL INFORMATION**

NOT AVAILABLE

SECTION XVII – DISPOSAL INFORMATION**DISPOSAL METHOD:** MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

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SECTION XVIII – TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION) – NOT REGULATED (UNITED STATES)

AIR: NOT AN IATA CONTROLLED MATERIAL

VESSEL: NOT AN IMDG CONTROLLED MATERIAL

SECTION XIX – REGULATORY INFORMATION

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

REACTIVITY: YES **ACUTE:** YES

313 REPORTABLE INGREDIENTS: NO PRODUCTS WERE FOUND ABOVE DE MINIMIS LEVELS.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: ALL INGREDIENTS IN THIS MIXTURE ARE IN COMPLIEANCE WITH TSCA.

QUARTZ, TITANIUM DIOXIDE AND CARBON BLACK ARE LISTED ON RIGHT TO KNOW LIST OF HAZARDOUS SUBSTANCES IN THE STATES OF MASSACHUSETTES AND PENNSYLVANIA.

CALIFORNIA PROPOSITION 65

CHEMICAL NAME	Wt.%	LISTED
CARBON BLACK	<0.1	CANCER

SECTION - DISCLAIMER

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE; OBTAINED FROM SOURCES BELIEVED BY VALCO CINCINNATI, INC. TO BE ACCURATE. SINCE THE CONDITIONS AND METHODS OF USE OF OUR PRODUCT ARE BEYOND OUR CONTROL, WE DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE IMPROPER USE OF THIS PRODUCT OR THE INFORMATION PROVIDED HEREWITH.