MATERIAL SAFETY DATA SHEET

06/13/2012

For Coatings, Resins and Related Materials

______ SECTION I - PRODUCT IDENTIFICATION _____ Manufacturer: Crawford Laboratories, Inc. Information Phone: 773-376-7132 4165 South Emerald Avenue Emergency Phone: 800-424-9300 _____ IL 60609 ! Hazard Ratings: Health - 2 Chicago Product Class: CONDUCTIVE COMPONANT ! none -> extreme Fire - 1 Trade Name : CONDUCTIVE FLOROPOXY PART C ! 0 ---> 4 Reactivity - 0 Product Code : X-10153-14 ! C.A.S. Number: SEE BELOW ! _____ SECTION II - HAZARDOUS INGREDIENTS _____ Weight --- Exposure Limits ---- VP CAS # % ACGIH/TLV OSHA/PEL mm HG Ingredients 100-51-6 5-20 Undetermined PHENYL CARBINOL 0.1 May contain as impurities the following items: benzaldehyde (CAS# 100-52-7) 0.3 % dibenzyl ether (CAS# 103-50-4) 0.1 % hydroquinone monomethyl ether (CAS# 150-76-5) 0.025% INORGANIC PIGMENT SEE BELOW > 75 0.05 mg/M3 This pigment contains Crystalline Silica, CAS 14808-90-7 Dry Crystalline Silica has Carconogenic effects: Classified + (Proven.) by NIOSH [SILICA, CRYSTALLINE QUARTZ]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [SILICA, CRYSTALLINE - QUARTZ.]

The Crystalline Silica is wetted in the coating, however, when sanding or grinding onto the dried coating a MSHA/NIOSH approved respirator or equivalent shall be worn to prevent respiration of the dust.

* SECTION 313 SUPPLIER NOTIFICATION Ingredients with * above are subject to reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 of 40 CFR 372.

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SECTION III - PHYSICAL DATA

Boiling Range:
311 - 401 Deg. F

Vapor Density:
Heavier than Air.

Evap. Rate:
0.0 x n-Butyl Acetate
Liquid Density: Heavier than Water.

Volatiles volume:
15.0 %
Wgt per gallon:
19.5 Pounds.
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V.O.C.: 0 GPL

Appearance: DARK GREY LIQUID

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_____ SECTION IV - FIRE AND EXPLOSION HAZARD DATA _____ Flammability Class: Flash Point: >200F LEL : -EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL FOAM, CO2, OR DRY CHEMICAL -SPECIAL FIREFIGHTING PROCEDURES: AS IN ANY FIRE, PREVENT HUMAN EXPOSURE TO FIRE, SMOKE, FUMES OR PRODUCTS OF COMBUSTION. EVACUATE NON-ESSENTIAL PERSONNEL FROM THE FIRE AREA. FIRE FIGHTERS SHOULD WEAR FULL-FACE, SELF-CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTINVE CLOTHING. WATER MAY BE USED TO KEEP FLAMMABLE STRUCTURES WET. WATER MAY BE USED TO KEEP EXPOSED CONTAINERS COOL, AND TO KEEP FLAMMABLE STRUCTURES WET DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTION BECAUSE HAZARDOUS DECOMPOSITION PRODUCTS MAY BE PRESENT. (SEE VI) -UNUSUAL FIRE & EXPLOSION HAZARDS: SEALED CONTAINERS MAY EXPLODE IF OVERHEATED. WATER PRESSURE MAY SPREAD A FLAMMABLE LIQUID FIRE. SEALED CONTAINERS MAY EXPLODE IF OVERHEATED. ______ SECTION V - HEALTH HAZARD DATA _____ -PERMISSIBLE EXPOSURE LEVEL: CARE SHOULD BE TAKEN TO ASSURE THAT THE EXPOSURE LIMITS SHOWN

IN SECTION II ARE NOT EXCEEDED. WHEN IN DOUBT - WEAR AN

APPROVED RESPIRATOR AND ORDER AIR SAMPLING TESTS. (SEE SECTION VIII). IF PEL'S ARE KNOWN, THEY ARE LISTED IN SECT. II W A R N I N G CARE MUST BE TAKEN NOT TO EXCEED THE EXPOSURE LIMIT FOR THE LOWEST TLV SHOWN IN SECTION II. WHEN IN DOUBT, WEAR AN APPROVED RESPIRATOR AND ORDER AIR SAMPLING TESTS. (SEE SECTION VIII) -EFFECTS OF OVEREXPOSURE: GENERAL EFFECTS FOR THIS TYPE OF PRODUCT: MAY CAUSE INJURY TO SKIN FOLLOWING REPEATED OR PROLONGED CONTACT AND MAY CAUSE SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES. EYE CONTACT MAY CAUSE SEVERE IRRITATION INHALATION MAY CAUSE IRRITATION TO NOSE, THROAT OR LUNGS INGESTION MAY BE HARMFUL IF SWALLOWED OVEREXPOSURE MAY PRODUCE VARIOUS EFFECTS, INCLUDING: 1-ACUTE TOXICITY, RESULTING IN HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF CONSCIOUSNESS. 2-SEVERE EYE IRRITATION POSSIBLY RESULTING IN PERMANENT DAMAGE. 3-IRRITATED MUCOUS MEMBRANES. 4-VOMITING DUE TO INGESTION. 5-DEFATTING AND DRYING OF THE SKIN. 6-SENSITIZATION AFTER REPEATED CONTACT. -FIRST AID: --EYE CONTACT-FLUSH WITH PLENTY OF FRESH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

--INHALATION-REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION. KEEP VICTIM WARM AND (cont.) Crawford Laboratories, Inc.

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SECTION V - HEALTH HAZARD DATA (cont.)

-FIRST AID: (cont.)

COMFORTABLE. NEVER GIVE AN UNCONSCIOUS PERSON LIQUIDS.

--INGESTION-IF SWALLOWED, CALL PHYSICIAN IMMEDIATELY. ONLY INDUCE VOMITING ON INSTRUCTIONS OF PHYSICIAN. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

--SKIN CONTACT- FLUSH WITH WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CONTAMINATED CLOTHING OR SHOES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IF STICKY, USE WATERLESS CLEANER FIRST. --EYE CONTACT-FLUSH WITH PLENTY OF CLEAN LUKEWARM LOW PRESSURE WATER FOR 15 MIN., OCCASIONALY LIFTING EYELIDS OPEN. GET MEDICAL ATTENTION.

--INHALATION-REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION. KEEP VICTOM WARM AND COMFORTABLE. NEVER GIVE AN UNCONSCIOUS PERSON LIQUIDS.

--INGESTION-IF SWALLOWED, CALL PHYSICIAN IMMEDIATELY. ONLY

INDUCE VOMITING ON INSTRUCTIONS OF PHYSICIAN. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON.

--SKIN CONTACT-FLUSH WITH WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CONTAMINATED CLOTHING OR SHOES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

_____ SECTION VI - REACTIVITY DATA STABLITY: [] Unstable [x] Stable HAZARDOUS POLYMERIZATION: [] May occur [x] Will not occur -INCOMPATABILITY: STRONG ACIDS, OXIDIZERS MAY BE INCOMPATIBLE WITH OXIDIZING AGENTS AND STRONG ALKALIES. -CONDITIONS TO AVOID: STRONG ACIDS, OXIDIZERS AVOID HEAT, SPARKS, OPEN FLAMES, AND INCOMPATIBILITIES ABOVE -HAZARDOUS DECOMPOSITION PRODUCTS: TOXIC FUMES AT DECOMPOSITION TEMPERATURES. SUCH AS CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, HF. INCOMPLETE COMBUSTION FOR PRODUCTS LIKE THIS MAY GENERATE HIGHLY POISONOUS CARBON MONOXIDE AND OTHER TOXIC GASES.

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SECTION VII - SPILL OR LEAK PROCEDURES

_____ -STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED COMPLETELY ABSORB WITH INERT MATERIAL (VERMICULITE), SWEEP OR SCOOP UP AND PUT IN DISPOSAL CONTAINER. FLUSH AREA WITH WATER BUT PREVENT WASHINGS FROM ENTERING SEWERS AND WATERWAYS. WARNING - FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. SOAK UP WITH AN ABSORBENT AND PLACE IN NON-LEAKING CONTAINERS. SEAL TIGHTLY FOR PROPER DISPOSAL. -WASTE DISPOSAL METHOD: PLACE IN CLOSED CONTAINERS. DISPOSAL MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE AND FEDERAL REGULATIONS. CONTACT AN APPROVED DISPOSAL FACILITY. DISPOSAL MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE AND FEDERAL REGULATION. CONTACT AN APPROVED DISPOSAL FACILITY. SECTION VIII - SPECIAL PROTECTION INFORMATION: -RESPIRATORY PROTECTION:

PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATORS SHALL BE USED DURING APPLICATION UNLESS AIR MONITORING DEMONSTRATES VAPOR/MIST LEVELS ARE BELOW APPLICABLE LIMITS.

PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATORS SHALL BE USED DURING APPLICATION UNLESS AIR MONITORING DEMONSTRATES VAPOR/MIST LEVELS ARE BELOW APPLICABLE LIMITS.

-VENTILATION: EFFECTIVE ENGINEERING CONTROLS SHOULD BE USED WHEREVER POSSIBLE. SOLVENT FREE COATINGS MAY PRODUCE VAPORS. EFFECTIVE ENGINEERING CONTROLS SHOULD BE USED WHENEVER POSSIBLE -PROTECTIVE GLOVES: NEOPRENE RUBBER GLOVES. USE RUBBER GLOVES -EYE PROTECTION: WEAR APPROVED SAFETY GOGGLES AND/OR FACE SHIELD. WEAR APPROVED SAFETY GOGGLES AND/OR FACE SHIELD. -OTHER PROTECTIVE EQUIPMENT: HAVE EYE BATH AVAILABLE AND SAFETY SHOWER AVAILABLE. HAVE EYE BATH AND SAFETY SHOWER AVAILABLE. _____ SECTION IX - SPECIAL PRECAUTIONS _____ -PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE AWAY FROM FLAMES AND HIGH TEMPERATURES. AVOID PROLONGED SKIN CONTACT. AVOID BREATHING VAPORS. TREAT AS A HAZARDOUS-FLAMMABLE MATERIAL. KNOW APPLICABLE D.O.T REGULATIONS BEFORE ATTEMPTING TO TRANSPORT THIS MATERIAL. "WARNING: HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR "IGNITION" TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME AND VAPOR/AIR CONTACT TIME AND ARE INFLUENCED BY PRESSURE CHANGES. (cont.)

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SECTION IX - SPECIAL PRECAUTIONS (cont.)

-PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: (cont.)

IGNITION MAY OCCUR AT TYPICAL ELEVATED TEMPERATURE PROCESS CONDITIONS, ESPECIALLY IN PROCESS OPERATING UNDER VACUUM IF SUBJECTED TO SUDDEN INGRESS OF AIR, OR OUTSIDE PROCESS EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS OR MISTS TO THE ATMOSPHERE OCCURS. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED."

-OTHER PRECAUTIONS:

NOTE

All information and opinions in this report are based on experience and computer programming which we believe to be reliable. We believe that the information contained herein is current as of the date of this report. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Crawford Laboratories, Inc, it is the user's obligation to determine the conditions of safe use of this product. Crawford Laboratories, Inc. makes no warranty, expressed or implied, as to the accuracy of the information and opinions, and assumes no responsibility for any damage to person, property or business arising from such use.

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