MATERIAL SAFETY DATA SHEET

For Coatings, Resins and Related Materials

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SECT	ION I - PRODU	JCT IDEN	TIFICATION			
Manufacturer: Crawford Laboratories, Inc. 4165 South Emerald Avenue		Eme	Information Phone: 773-376-7132 Emergency Phone: 800-424-9300			
Chicago	IL 606	609 ! Ha	zard Ratings	: Heal	th - 2	
Product Class: L2,L3,N1,N3,N4,T1,GRB1,CR,M ! none -> extreme Fire - 3					re - 3	
Trade Name : FloroCryl		! 0	> 4	Reactivi	ty - 2	
Product Code : MMA		!				
C.A.S. Number: See Below		!				
SECTION II - HAZARDOUS INGREDIENTS						
		Weight	Exposur	e Limits	VP	
Ingredients	CAS #	%	ACGIH/TLV	OSHA/PEL	mm HG	
METHYL METHACRYLATE MONOMER	80-62-6	20-50	100 ppm	100	38.7	
2-ETHYLHEXYL ACRYLATE	103-11-7	5-20	ppm			
POLYOL RESIN	PROPRIETARY	20-50	ppm			

* SECTION 313 SUPPLIER NOTIFICATION

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

Warning: This material is highly flammable. Direct contact

can cause severe irritation to the eyes, skin and respiratory tract. Inhalation and skin contact can cause an allergic sensitization. Inhalation of high vapor concentrations can cause headache, nausea, drowsiness and unconsciounses.

SECTION III - PHYSICAL DATA

Boiling Range: 213 - 424 Deg. F Vapor Density: Heavier than Air.

Evap. Rate: n-Butyl Acetate Liquid Density: Lighter than Water.

Volatiles volume: 0.0 % Wgt per gallon: 8.09 Pounds.

Appearance: Translucent Liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: Flash Point: 50 F LEL: 2.1

-EXTINGUISHING MEDIA:

FOAM, CO2, OR DRY CHEMICAL

-SPECIAL FIREFIGHTING PROCEDURES:

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:

WATER PRESSURE MAY SPREAD A FLAMMABLE LIQUID FIRE.

SEALED CONTAINERS MAY EXPLODE IF OVERHEATED.

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SECTION V - HEALTH HAZARD DATA

-PERMISSIBLE EXPOSURE LEVEL:

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:

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 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: [x] Unstable [] Stable

HAZARDOUS POLYMERIZATION: [x] May occur [] Will not occur

-INCOMPATABILITY:

MAY BE INCOMPATIBLE WITH OXIDIZING AGENTS AND STRONG ALKALIES. -CONDITIONS TO AVOID:

AVOID HEAT, SPARKS, OPEN FLAMES, AND INCOMPATIBILITIES ABOVE -HAZARDOUS DECOMPOSITION PRODUCTS:

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 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: 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. -VENTILATION: EFFECTIVE ENGINEERING CONTROLS SHOULD BE USED WHENEVER POSSIBLE

-PROTECTIVE GLOVES:

USE RUBBER GLOVES

-EYE PROTECTION:

WEAR APPROVED SAFETY GOGGLES AND/OR FACE SHIELD.

-OTHER PROTECTIVE EQUIPMENT:

SECTION IX - SPECIAL PRECAUTIONS

-PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

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.

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:

N O T E

All information and opinions in this report are based on experience and computer programming which we believe to be (cont.)

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SECTION IX - SPECIAL PRECAUTIONS (cont.)

-OTHER PRECAUTIONS: (cont.)

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.

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