

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

Chicago IL 60609 ! Hazard Ratings: Health - 3  
 Product Class: ACTIVATOR ! none -> extreme Fire - 2  
 Trade Name : 4700 SERIES PT B ! 0 ---> 4 Reactivity - 1  
 Product Code : U0-144 !  
 C.A.S. Number: SEE BELOW !

SECTION II - HAZARDOUS INGREDIENTS

| Ingredients   | CAS #   | Weight % | Exposure Limits |          | VP mm HG |
|---|---|----------|-----------------|----------|----------|
|   |   |          | ACGIH/TLV       | OSHA/PEL |          |
| EPOXY RESIN   | 25085-99-8                                    | 5-20     | Undetermined    |          |          |
| This is a Bisphenol A / Epichlorohydrin Epoxy Resin.<br>Repeated exposure may cause skin irritation. Has caused allergic skin reaction in humans. |   |          |                 |          |          |
| PHENYL CARBINOL   | 100-51-6                                      | 20-50    | Undetermined    |          | 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%          |          |          |
| * BISPHENOL A   | 00080-05-7                                    | 5-20     | Undetermined    |          |          |
| AMINE   | 15520-10-2                                    | 20-50    | Undetermined    |          | 130      |

\* 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

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|-------------------|------------------|-----------------|---------------------|
| Boiling Range:    | 193 - 428 Deg. F | Vapor Density:  | Heavier than Air.   |
| Evap. Rate:       | n-Butyl Acetate  | Liquid Density: | Lighter than Water. |
| Volatiles volume: | 0.0 %            | Wgt per gallon: | 8.26 Pounds.        |
| Appearance:       | CLEAR LIQUID     | V.O.C.:         | 0 GPL               |

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flammability Class:                      Flash Point: >200F                      LEL :

-EXTINGUISHING MEDIA:

FOAM, CO2, 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.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA (cont.)

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-UNUSUAL FIRE & EXPLOSION HAZARDS:

SEALED CONTAINERS MAY EXPLODE IF OVERHEATED.

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SECTION V - HEALTH HAZARD DATA

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-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).

-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

-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

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.

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SECTION VI - REACTIVITY DATA

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STABILITY: [ ] Unstable [x] Stable  
HAZARDOUS POLYMERIZATION: [ ] May occur [x] Will not occur

-INCOMPATIBILITY:

STRONG ACIDS, OXIDIZERS

-CONDITIONS TO AVOID:

STRONG ACIDS,OXIDIZERS

-HAZARDOUS DECOMPOSITION PRODUCTS:

TOXIC FUMES AT DECOMPOSITION TEMPERATURES.  
SUCH AS CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN,  
HF.

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SECTION VII - SPILL OR LEAK PROCEDURES

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-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.

-WASTE DISPOSAL METHOD:

PLACE IN CLOSED CONTAINERS. DISPOSAL MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE AND FEDERAL REGULATIONS. CONTACT AN APPROVED DISPOSAL FACILITY.

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SECTION VIII - SPECIAL PROTECTION INFORMATION:

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-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 WHEREVER POSSIBLE. SOLVENT FREE COATINGS MAY PRODUCE VAPORS.

-PROTECTIVE GLOVES:

NEOPRENE RUBBER GLOVES.

-EYE PROTECTION:

WEAR APPROVED SAFETY GOGGLES AND/OR FACE SHIELD.

-OTHER PROTECTIVE EQUIPMENT:

HAVE EYE BATH AVAILABLE AND SAFETY SHOWER AVAILABLE.

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SECTION IX - SPECIAL PRECAUTIONS

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-PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

STORE AWAY FROM FLAMES AND HIGH TEMPERATURES. AVOID PROLONGED SKIN CONTACT. AVOID BREATHING VAPORS.

-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.

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