

MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: POXY PASTE, PART A
SYNONYM: THERMOSETTING RESIN
CHEMICAL FAMILY: MODIFIED EPOXY RESIN
DATE: JANUARY 1, 1995

SECTION II - HAZARDOUS INGREDIENTS AND OTHER COMPONENTS

INGREDIENT	% BY WEIGHT	EXPOSURE LIMITS	CAS#
BISPHENOL A/DIGLYCIDYL 25068-38-6 ETHER RESIN	50-90	N.E.	
INERT POWDERS 14807-96-6	10-50	N.E.	
FUMED SILICA	0-5		067762-90-7

SECTION III - PHYSICAL DATA

BOILING POINT: > 200° C
VP: > 1 TORR @ 180 °C
VP: > 1 (AIR =1)
SOLUBILITY IN WATER: INSOLUBLE
EVAPORATION RATE: < 1 (BUTYL ACETATE =1)
SP GR: > 1.32 (WATER = 1)
% VOLATILE BY VL: NIL

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: > 200° F (TCC)
FLAMMABLE LIMITS: ACRID SMOKE/FUMES
EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICALS, FOAM, WATER SPRAY
EXPLOSIVE LIMITS: LEL - N.E.
UEL - N.E.

POXY PASTE: PART A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA (CONTINUED)

SPECIAL FIRE FIGHTING PROCEDURES : USE SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: DECOMPOSITION AND COMBUSTION PRODUCTS
MAY BE TOXIC.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: INHALATION, SKIN CONTACT

TOXICOLOGICAL DATA: LD SO'S PROVIDED ARE THE LOWEST VALUES FOR TYPED OF
BISPHENOL A
DIGLYCIDAL ETHER RESINS USED.
ORAL LD, 0: (RABBITS) MODERATE IRRITATION
EYE IRRITATION: (RABBITS) MILD IRRITATION
SENSITIZATION: SENSITIZER

EFFECTS OF OVEREXPOSURE: IRRITATION, SENSITIZATION, AND DERMATITIS
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: ALLERGY, ECZEMA, SKIN
CONDITIONS
CARCINOGENICITY: NONE OF THE COMPONENTS OF THIS MATERIAL ARE LISTED AS
CARCINOGENS BY NTP, IARC, OR OSHA.

IN ORDER TO COMPLY WITH CALIFORNIA PROPOSITION 65, WE FEEL OBLIGATED TO ADVISE
THAT SOME OF OUR PRODUCTS MAY CONCEIVABLY CONTAIN TRACE CONTAMINANTS OF
SOME OF THE LISTED CHEMICALS. WHILE NOT NECESSARILY ADDED TO OUR PRODUCTS AS
INGREDIENTS, SOME LISTED CHEMICALS MAY BE PRESENT IN THE RAW MATERIALS AS
RECEIVED FROM SUPPLIERS AND OVER WHICH WE HAVE NO CONTROL. THEREFORE, COMPLY
WITH CALIFORNIA LAW, WE FEEL OBLIGATED TO MAKE THE FOLLOWING STATEMENT:
**WARNING: OUR PRODUCTS MAY CONTAIN TRACE AMOUNTS OF SOME CHEMICALS
CONSIDERED BY THE STATE OF CALIFORNIA TO BE CARCINOGENS OR REPRODUCTIVE
TOXICANTS.**

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES, IF ANY ILL EFFECTS DEVELOP, SEEK
MEDICAL ATTENTION.
INHALATION: REMOVE TO FRESH AIR AND GIVE OXYGEN IF BREATHING IS DIFFICULT.
INGESTION : GIVE LARGE QUANTITIES OF WATER AND INDUCE VOMITING, GET MEDICAL
ATTENTION.

SECTION VI REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: ELEVATED TEMPERATURES

INCOMPATIBILITY: (MATERIALS TO AVOID): STRONG OXIDIZERS, STRONG ACIDS OR BASES IN BULK
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES AND OTHER ORGANICS.

POXY PASTE: PART A

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: AVOID ALL PERSONAL CONTACT. WIPE WITH RAG FOR SMALL SPILLS. FOR LARGER SPILLS, USE ABSORBENT MATERIAL. COLLECT WASTE IN DESIGNATED CONTAINER. FLUSH CONTAMINATED AREA WITH WATER. WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL , STATE AND LOCAL REGULATIONS.

SECTION VIII-SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: AVOID BREATHING VAPORS. USE ADEQUATE VENTILATION.
VENTILATION: GOOD MECHANICAL VENTILATION AND LOCAL EXHAUST
EYE PROTECTION: SAFETY GLASSES
PROTECTIVE GLOVES: RUBBER OR POLYETHYLENE
OTHER PROTECTIVE EQUIPMENT : DISPOSABLE CONTAINERS AND PAPER ON WORK AREA. USE OF BARRIER CREAM RECOMMENDED. USE APPROPRIATE EQUIPMENT TO PREVENT EYE OR SKIN CONTACT.

SECTION IX-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: CAUSES IRRITATION - MAY CAUSE ALLERGIC SKIN REACTION. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. STORE IN COOL, DRY AREA IN CLOSED CARTRIDGES,
OTHER PRECAUTIONS: AVOID BREATHING VAPORS. USE WITH GOOD VENTILATION. WASH HANDS THOROUGHLY WITH SOAP AND WATER AFTER EVERY USAGE
HMIS CLASSIFICATION:
HEALTH 2 FLAMMABILITY 1 REACTIVITY 0 PERSONAL
PROTECTION B

ALL STATEMENTS TECHNICAL INFORMATION, AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON AVAILABLE SCIENTIFIC TEST OR DATA WHICH WE BELIEVE TO BE RELIABLE. SINCE WE CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH THIS INFORMATION AND OUR PRODUCTS OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH OUR PRODUCTS MAY BE USED, APPLIED TECHNOLOGIES, LLC MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: POXY PASTE, PART B
SYNONYM: EPOXY HARDENER
CHEMICAL FAMILY: MODIFIED POLYMERCAPTAN
DATE: JANUARY 1, 1995

SECTION II - HAZARDOUS INGREDIENTS AND OTHER COMPONENTS

<u>INGREDIENT</u>	<u>% BY WEIGHT</u>	<u>EXPOSURE LIMITS</u>	<u>CAS #</u>
PROPRIETARY POLYMERCAPTANS	20 - 40	N.E.	-----
INERT POWDERS	60 - 80	N.E.	14807-96-6
FUMED SILICA	0 - 5	N.E.	067762-90-7

SECTION III - PHYSICAL DATA

APPEARANCE: PASTE **COLOR:** BLACK
BOILING POINT: NOT DETERMINED (>200° F) **VP:** N.D.
VD: NOT DETERMINED (AIR =I) **% VOLATILE BY VL:** < 1
SOLUBILITY IN WATER: APPRECIABLE **ODOR:** SKUNK LIKE, PINC -0.1
EVAPORATION RATE: <1 (BUTYL ACETATE = 1)
SP GR: > 1.91 +/- .02 (WATER = 1)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 185° F PMCC FLAMMABLE LIMITS: UNKNOWN
EXTINGUISHING MEDIA: FOAM, DRY CHEMICALS, CO2
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE
SPECIAL FIRE FIGHTING PROCEDURES: AVOID BREATHING SMOKE. SELF CONTAINED
BREATHING APPARATUS.

POXY PASTE: PART B

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: INHALATION, SKIN CONTACT

TOXICOLOGICAL DATA: POLYAMINE RESIN: ORAL RAT LD50-<5 CC/KG

IRRITATION DATA: POLYAMINE RESIN EYE -(RABBIT) CONJUNCTIVAL IRRITANT

SKIN- (RABBIT) - MILD IRRITANT

EFFECTS OF OVEREXPOSURE:

ACUTE: WILL CAUSE BURNS TO SKIN AND EYES. HIGH CONCENTRATIONS OF VAPOR CAN CAUSE IRRITATION OF RESPIRATORY TRACT, NAUSEA AND VOMITING.

CHRONIC: PROLONGED OR REPEATED EXPOSURE MAY CAUSE ASTHMA AND SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: ALLERGY, ECZEMA, SKIN CONDITIONS.

CARCINOGENICITY: NONE OF THE COMPONENTS OF THIS MATERIAL ARE LISTED AS CARCINOGENS BY NTP, IARC, OR OSHA.

IN ORDER TO COMPLY WITH CALIFORNIA PROPOSITION 65, WE FEEL OBLIGATED TO ADVISE THAT SOME OF OUR PRODUCTS MAY CONCEIVABLY CONTAIN TRACE CONTAMINANTS OF SOME OF THE LISTED CHEMICALS. WHILE NOT NECESSARILY ADDED TO OUR PRODUCTS AS INGREDIENTS, SOME LISTED CHEMICALS MAY BE PRESENT IN THE RAW MATERIALS AS RECEIVED FROM SUPPLIERS AND OVER WHICH WE HAVE NO CONTROL. THEREFORE, EVEN THOUGH SOME OF THE LISTED SUBSTANCES MAY NOT REPRESENT A SIGNIFICANT RISK AS DEFINED BY THE REGULATIONS, IN ORDER TO COMPLY WITH CALIFORNIA LAW, WE FEEL OBLIGATED TO MAKE THE FOLLOWING STATEMENT.: **WARNING:** OUR PRODUCTS MAY CONTAIN TRACE AMOUNTS OF SOME CHEMICALS CONSIDERED BY THE STATE OF CALIFORNIA TO BE CARCINOGENS OR REPRODUCTIVE TOXICANTS.

EMERGENCY AND FIRST AID PROCEDURES:

EYES - FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

SKIN: IMMEDIATELY DELUGE SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES.

INHALATION: REMOVE TO FRESH AIR. IF AFFECTED, ADMINISTER OXYGEN IF NECESSARY. SEEK MEDICAL ATTENTION.

INGESTION: IF SWALLOWED AND CONSCIOUS, GIVE PLENTY OF WATER AND INDUCE VOMITING. SEEK MEDICAL ATTENTION.

POXY PASTE: PART B

SECTION VI - REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS, ACIDS. HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: MIXING WITH OXIDIZERS OR EPOXY RESINS IN QUANTITIES OVER 1#.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SOAK UP WITH INERT MATERIAL OR SCRAPE UP. COLLECT WASTE IN DESIGNATED WASTE CONTAINERS. AVOID PERSONAL CONTACT. FLUSH CONTAMINATED AREA WITH WATER. WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: USE ADEQUATE VENTILATION. AVOID BREATHING VAPORS.

VENTILATION: NORMAL VENTILATION SHOULD BE ADEQUATE. LOCAL IF VAPORS ARE

VENTED. EYE PROTECTION: SAFETY GLASSES PROTECTIVE GLOVES: RUBBER OR IMPERVIOUS GLOVES RECOMMENDED.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE AWAY FROM HEAT AND OPEN FLAME.

OTHER PRECAUTIONS: AVOID BREATHING VAPORS OF HEATED MATERIAL. WASH HANDS WITH SOAP AND WATER AFTER EVERY USAGE USE ADEQUATE VENTILATION. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

HMS CLASSIFICATION:

HEALTH 2

FLAMMABILITY 2

REACTIVITY 0

PERSONAL PROTECTION

B

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