

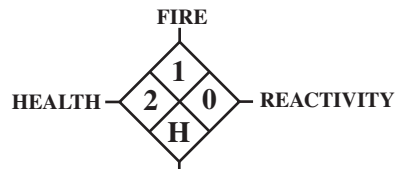
MATERIAL SAFETY DATA SHEET

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THIS NUMBER IS TO BE USED ONLY IN THE EVENT OF
CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE,
EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS

DATE REVISED: AUGUST 21, 2002



PERSONAL PROTECTION

HMIS HAZARD RATING	
LEAST----- 0	SLIGHT----- 1
MODERATE---- 2	HIGH----- 3
EXTREME----- 4	

SECTION I - PRODUCT IDENTIFICATION AND PHYSICAL DATA

PRODUCT NAME: PEGA-BOND 9509 PART B	% VOLATILE BY WEIGHT:	NIL
PRODUCT CLASS: EPOXY HARDENER	U.N. LABEL:	NOT APPLICABLE
EVAPORATION RATE: SLOWER (BUTYL ACETATE=1)	U.N. HAZARD CLASS:	NOT REGULATED
SPECIFIC GRAVITY: 1.40	U.N. ID NUMBER:	NOT APPLICABLE
APPEARANCE AND ODOR: BLACK PASTY LIQUID WITH IRRITATING ODOR.	U.N. SHIPPING NAME:	NOT APPLICABLE

SECTION II - HAZARDOUS INGREDIENTS

THE PRECISE COMPOSITION OF THIS PRODUCT IS PROPRIETARY INFORMATION. A MORE COMPLETE DISCLOSURE CAN BE PROVIDED IN THE EVENT OF A MEDICAL EMERGENCY.

<u>INGREDIENTS (CAS #)</u>	<u>PERCENT BY WEIGHT*</u>	<u>ACGIH/TLV</u>	<u>OSHA/PEL</u>
AMINOETHYLPIPERAZINE (140-31-8)	MINOR	NOT ESTAB.	NOT ESTAB.

* MAJOR = OVER 25%, MINOR = 6-25%, TRACE = UNDER 6%, RESIDUE = UNKNOWN % RESIDUE POSSIBLE

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: GREATER THAN 205°F SETAFLASH (FOR PRODUCT OF LOWEST FLASH POINT INGREDIENT)
EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, WATER FOG AND FOAM.
UNUSUAL FIRE AND EXPLOSION HAZARDS: HEAT INCREASES PRESSURE AND MAY EXPLODE CONTAINERS.
SPECIAL FIRE FIGHTING PROCEDURES: WEAR POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS DURING FIRE FIGHTING.

SECTION IV - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INGESTION: WILL CAUSE SEVERE IRRITATION AND CORROSIVE BURNS TO MOUTH, THROAT AND STOMACH.

INHALATION: MAY CAUSE IRRITATION OF THE MUCOUS MEMBRANES OF THE NOSE, THROAT AND RESPIRATORY TRACT.

SKIN CONTACT: WILL CAUSE BURNING.

EYE CONTACT: WILL CAUSE SEVERE IRRITATION AND POTENTIAL PERMANENT DAMAGE TO THE EYES.

CHORIC

SUPERFICIAL DESTRUCTION OF THE SKIN OR PRIMARY IRRITANT DERMATITIS.

ACUTE

WILL CAUSE SEVERE IRRITATION AND POTENTIAL PERMANENT DAMAGE TO THE EYES. ON DIGESTION, SEVERE AND RAPID CORROSIVE BURNS OF MOUTH, GULLET AND GASTROINTESTINAL TRACT.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 20 MINUTES WHILE HOLDING EYELIDS APART AND AWAY FROM EYEBALLS DURING FLUSHING. SEEK IMMEDIATE MEDICAL ATTENTION, PREFERABLY AN EYE SPECIALIST.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND FOOTWEAR AND WASH AND DRY BEFORE REUSE. DISCARD CONTAMINATED FOOTWEAR WHICH CANNOT BE DECONTAMINATED. WASH WITH SOAP AND PLENTY OF WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSONS. SEVERAL GLASSES OF MILK OR SEVERAL OUNCES OF MILK OF MAGNESIA MAY BE GIVEN FOR THE SOOTHING EFFECT. SEEK IMMEDIATE MEDICAL ATTENTION. IF VOMITING OCCURS SPOINTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

INHALATION: MOVE VICTIM TO FRESH AIR. KEEP HIM LYING DOWN, QUIET AND WARM. GET COMPETENT MEDICAL ATTENTION IMMEDIATELY. IF BREATHING DIFFICULTY, ADMINISTER OXYGEN BY AN AUTHORIZED PERSON ONLY, UNTIL VICTIM IS ABLE TO BREATHE EASILY BY HIMSELF. IF BREATHING STOPS START ARTIFICIAL RESPIRATION AT ONCE. DO NOT GIVE STIMULANTS UNLESS INSTRUCTED TO DO SO BY A PHYSICIAN.

SECTION V - REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
NOT APPLICABLE

CALIFORNIA SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT VOLATILE ORGANIC COMPOUNDS (SCAQMD):
NOT APPLICABLE

SUPERFUND AMENDMENTS AND REAUTHORIZING ACT (SARA TITLE III SECTION 313):
NOT APPLICABLE

OTHER INFORMATION:
ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

SECTION VI- REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND UNIDETIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION VII- SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: AVOID CONTACT WITH MATERIAL. PERSONS NOT WEARING APPROPRIATE PROTECTIVE EQUIPMENT (SEE BELOW) SHOULD BE EXCLUDED FROM THE AREA OF SPILL UNTIL CLEAN-UP IS COMPLETE. STOP SPILL AT SOURCE, DIKE AREA TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE CONTAINER. REMAINING LIQUID MAY BE TAKEN UP ON CLAY, DIATOMACEOUS EARTH OR OTHER ABSORBENT AND SHOVELED INTO DISPOSAL CONTAINERS.

WASTE DISPOSAL METHOD: DISPOSE OF WASTE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII- SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: WHENEVER EXPOSURE TO VAPOR/MISTS IS LIKELY UNLESS LEVELS ARE BELOW APPLICABLE LIMITS, WEAR A PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR. FOR EMERGENCIES, A SELF-CONTAMINATED BREATHING APPARATUS OR FULL FACE RESPIRATOR IS RECOMMENDED.

VENTILATION: VENTILATION MUST BE SUFFICIENT TO CONTROL VAPORS. BREATHING OF VAPORS MUST BE AVOIDED. THIS MATERIAL SHOULD BE CONFINED AS FAR AS POSSIBLE WITHIN SEALED OR COVERED EQUIPMENT IN WHICH CASE NORMAL VENTILATION SHOULD BE ADEQUATE. SPECIAL (LOCAL) VENTILATION WILL BE NEEDED IN AREAS WHERE VAPORS ARE EXPECTED TO BE VENTED.

POINTS BELOW 73° AND BOILING POINTS BELOW 100° (NFPA CLASS IA).

III. REACTIVITY HAZARD RATING

- 0 MINIMAL HAZARD: MATERIALS THAT ARE NORMALLY STABLE, EVEN UNDER FIRE CONDITIONS, AND WILL NOT REACT WITH WATER.
- 1 SLIGHT HAZARD: MATERIALS THAT ARE NORMALLY STABLE BUT CAN BECOME UNSTABLE AT HIGH TEMPERATURES AND PRESSURES. THESE MATERIALS MAY REACT WITH WATER BUT THEY WILL NOT RELEASE ENERGY VIOLENTLY.
- 2 MODERATE HAZARD: MATERIALS THAT, IN THEMSELVES, ARE NORMALLY UNSTABLE AND WILL READILY UNDERGO VIOLENT CHEMICAL CHANGE BUT WILL NOT DETONATE. THESE MATERIALS MAY ALSO REACT VIOLENTLY WITH WATER.
- 3 SERIOUS HAZARD: MATERIALS THAT ARE CAPABLE OF DETONATION OR EXPLOSIVE REACTION BUT REQUIRE A STRONG INITIATING SOURCE OR MUST BE HEATED UNDER CONFINEMENT BEFORE INITIATION; OR MATERIALS THAT REACT EXPLOSIVELY WITH WATER.
- 4 SEVERE HAZARD: MATERIALS THAT ARE READILY CAPABLE OF DETONATION OR EXPLOSIVE DECOMPOSITION AT NORMAL TEMPERATURES AND PRESSURES.

RUBBER FOOT COVERING ARE RECOMMENDED. A SAFETY SHOWER AND EYE WASH FACILITY SHOULD BE AVAILABLE.

PROTECTIVE GLOVES: FOR OPERATIONS WHERE CONTACT CAN OCCUR, WEAR IMPERVIOUS GLOVES (NEOPRENE OR RUBBER).

EYE PROTECTION: WEAR SPLASH-PROOF CHEMICAL GOGGLES.

OTHER PROTECTIVE EQUIPMENT: FOR OPERATIONS WHERE CONTACT CAN OCCUR, COVERALLS, APRON AND RUBBER FOOT COVERING ARE RECOMMENDED. A SAFETY SHOWER AND EYE WASH FACILITY SHOULD BE AVAILABLE.

SECTION IX- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

PREVENT ALL SKIN AND EYE CONTACT.
AVOID BREATHING VAPORS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

PREVENT ALL SKIN AND EYE CONTACT.
AVOID BREATHING VAPORS.
RE-SEAL PARTIALLY USED CONTAINERS.
ENSURE THAT ALL CONTAINERS ARE PROPERLY LABELED TO PREVENT ACCIDENTAL INGESTION.
WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.
OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES.
REMOVE AND THOROUGHLY LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.
DISCARD CONTAMINATED SHOES.
STORE UNDER COOL, DRY CONDITIONS AND AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

DISCLAIMER OF LIABILITY

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE AND DISPOSAL OF THIS PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE, OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

SUMMARY OF HMIS RATING

I. HEALTH HAZARD RATING

- 0 MINIMAL HAZARD: NO SIGNIFICANT RISK TO HEALTH.
- 1 SLIGHT HAZARD: IRRITATION OR MINOR REVERSIBLE INJURY POSSIBLE.
- 2 TEMPORARY OR MINOR INJURY MAY OCCUR.
- 3 SERIOUS HAZARD: MAJOR INJURY LIKELY UNLESS PROMPT ACTION IS TAKEN AND MEDICAL TREATMENT IS GIVEN.
- 4 SEVERE HAZARD: LIFE-THREATENING, MAJOR OR PERMANENT DAMAGE MAY RESULT FROM SINGLE OR REPEATED EXPOSURES.

II. FLAMMABILITY HAZARD RATING

- 0 MINIMAL HAZARD: MATERIALS THAT ARE NORMALLY STABLE AND WILL NOT BURN UNLESS HEATED.
- 1 SLIGHT HAZARD: MATERIALS THAT MUST BE PREHEATED BEFORE IGNITION WILL OCCUR.
FLAMMABLE LIQUIDS IN THIS CATEGORY WILL HAVE FLASH POINTS (THE LOWEST TEMPERATURE AT WHICH IGNITION WILL OCCUR) AT OR ABOVE 200°F (NFPA CLASS IIIB).
- 2 MODERATE HAZARD: MATERIAL THAT MUST BE MODERATELY HEATED BEFORE IGNITION WILL OCCUR INCLUDING FLAMMABLE LIQUIDS WITH FLASH POINTS BETWEEN 100°F AND BELOW 200°F (NFPA CLASS II & CLASS IIIA).
- 3 SERIOUS HAZARD: MATERIALS CAPABLE OF IGNITION UNDER ALMOST ALL NORMAL TEMPERATURE CONDITIONS, INCLUDING FLAMMABLE LIQUIDS WITH FLASH POINTS BELOW 73°F AND 100°F (NFPA CLASS IB AND IC).
- 4 SEVERE HAZARD: VERY FLAMMABLE GASES OR VERY VOLATILE FLAMMABLE LIQUIDS WITH FLASH

POINTS BELOW 73° AND BOILING POINTS BELOW 100° (NFPA CLASS IA).

III. REACTIVITY HAZARD RATING

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- 1 SLIGHT HAZARD: MATERIALS THAT ARE NORMALLY STABLE BUT CAN BECOME UNSTABLE AT HIGH TEMPERATURES AND PRESSURES. THESE MATERIALS MAY REACT WITH WATER BUT THEY WILL NOT RELEASE ENERGY VIOLENTLY.
- 2 MODERATE HAZARD: MATERIALS THAT, IN THEMSELVES, ARE NORMALLY UNSTABLE AND WILL READILY UNDERGO VIOLENT CHEMICAL CHANGE BUT WILL NOT DETONATE. THESE MATERIALS MAY ALSO REACT VIOLENTLY WITH WATER.
- 3 SERIOUS HAZARD: MATERIALS THAT ARE CAPABLE OF DETONATION OR EXPLOSIVE REACTION BUT REQUIRE A STRONG INITIATING SOURCE OR MUST BE HEATED UNDER CONFINEMENT BEFORE INITIATION; OR MATERIALS THAT REACT EXPLOSIVELY WITH WATER.
- 4 SEVERE HAZARD: MATERIALS THAT ARE READILY CAPABLE OF DETONATION OR EXPLOSIVE DECOMPOSITION AT NORMAL TEMPERATURES AND PRESSURES.