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TRANSPORTATION EMERGENCY PHONE NUMBER: CHEMTREC (800) 424-9300

PRODUCT NAME: **ULTRA-SEAL**

**MATERIAL SAFETY DATA SHEET**

HMS RATING: HEALTH=1\*, FLAMMABILITY=0, REACTIVITY= 0 \*FOR ACUTE AND CHRONIC HEALTH EFFECTS REFER TO THE DISCUSSION IN SECTION 3

SECTION 1. PRODUCT IDENTIFICATION PRODUCT NAME ULTRA-SEAL CHEMICAL FAMILY WATER-BASED SYNTHETIC RESIN

SECTION 2-A. HAZARDOUS INGREDIENTS

NO. INGREDIENT NAME CAS NUMBER PERCENTAGE

1 VINYL ACETATE MONOMER 108-05-4 < 0.5%

THIS MSDS IS PREPARED TO COMPLY WITH THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). PROPRIETARY INGREDIENTS ARE CONSIDERED TO BE TRADE SECRETS OF ENVIRONMENTAL TECHNOLOGY, INC. IDENTITIES OF PROPRIETARY INGREDIENTS WILL BE MADE AVAILABLE FOLLOWING THE PROCEDURES SPECIFIED IN THE TRADE SECRET SECTION OF THIS STANDARD.

SECTION 2-B. ACUTE TOXICITY DATA

NO. ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50

1 NOT AVAILABLE 2920 PPM (RAT) 2828 PPM/4 HR.(RAT)

SECTION 3. HEALTH INFORMATION THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). EYE CONTACT: BELIEVED TO BE IRRITATING TO THE EYES. SKIN CONTACT: PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION. INHALATION: PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION OF THE NOSE, THROAT, AND RESPIRATORY TRACT. INGESTION: NOT AVAILABLE. OTHER HEALTH EFFECTS: SEE SECTION 6 FOR SUPPLEMENTAL HEALTH INFORMATION

SECTION 4. OCCUPATIONAL EXPOSURE LIMITS

OSHA ACGIH

NO. PEL/TWA PEL/CEILING TLV/TWA TLV/STEL OTHER

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1 10 PPM NOT ESTABLISHED 10 PPM 10 PPM  
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SECTION 5. EMERGENCY AND FIRST AID PROCEDURES EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN CONTACT: WASH AFFECTED AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION IF EFFECTS SUCH AS SWELLING OR REDDENING OCCUR. DO NOT REUSE CLOTHING UNTIL CLEANED. INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. IF PATIENT IS NOT BREATHING, APPLY ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IF EFFECTS PERSIST. INGESTION: IF PERSON CAN SWALLOW, GIVE ONE GLASS OF WATER OR MILK. DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.  
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SECTION 6. SUPPLEMENTAL HEALTH INFORMATION SUSPECTED CANCER AGENT ANIMAL CARCINOGEN

THIS PRODUCT CONTAINS VINYL ACETATE MONOMER, ACETALDEHYDE AND FORMALDEHYDE AT CONCENTRATIONS OF <0.5%, <0.004% AND <0.006% RESPECTIVELY. ALL HAVE BEEN SHOWN TO CAUSE CANCER IN TESTS WITH LABORATORY ANIMALS. THIS PRODUCT CONTAINS <0.004% TOLUENE WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE HARM. OVEREXPOSURE MAY INCREASE RISKS. OVEREXPOSURE TO THIS PRODUCT SHOULD NOT OCCUR WITH NORMAL HANDLING AND USE. THIS SECTION FULFILLS SOME OF THE REPORTING REQUIREMENTS UNDER CALIFORNIA'S PROPOSITION 65.  
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SECTION 7. PHYSICAL DATA

BOILING POINT (DEG. F) > 200 SOLUBILITY (IN WATER) MISCIBLE

MELTING POINT (DEG. F) NOT DETERMINED VAPOR PRESSURE (MM HG) NOT DETERMINED

EVAPORATION RATE (N-BUTYL ACETATE = 1) NOT DETERMINED VAPOR DENSITY (AIR = 1) NOT DETERMINED

SPECIFIC GRAVITY (H<sub>2</sub>O = 1) 1.10 @ 77 DEG. F APPEARANCE AND ODOR LIQUID< /FONT >  
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SECTION 8. FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD NON-FLAMMABLE

FLAMMABLE LIMITS, PERCENT VOLUME IN AIR: LOWER NOT DETERMINED UPPER NOT DETERMINED

EXTINGUISHING MEDIA: NON-FLAMMABLE IN LIQUID STATE. USE WATER FOG, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE (CO<sub>2</sub>) ON DRIED PRODUCT. SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: TOXIC FUMES WILL BE EVOLVED WHEN THIS MATERIAL IS INVOLVED IN A FIRE. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER. UNUSUAL FIRE AND EXPLOSION HAZARDS: THERE IS THE POSSIBILITY OF PRESSURE BUILDUP IN CLOSED CONTAINERS WHEN HEATED. WATER SPRAY MAY BE USED TO COOL THE CONTAINERS.  
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SECTION 9. REACTIVITY STABILITY STABLE HAZARDOUS POLYMERIZATION WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID: NOT ESTABLISHED. HAZARDOUS DECOMPOSITION PRODUCTS: INCOMPLETE COMBUSTION CAN YIELD LOW MOLECULAR WEIGHT HYDROCARBONS AND CARBON MONOXIDE.

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SECTION 10. EMPLOYEE PROTECTION RESPIRATORY PROTECTION: NOT NORMALLY REQUIRED. VENTILATION: STANDARD INDUSTRIAL VENTILATION. PROTECTIVE CLOTHING: AVOID CONTACT WITH SKIN. WEAR IMPERVIOUS GLOVES MADE OF NEOPRENE OR RUBBER. WEAR A CLEAN, BODY-COVERING CLOTHING. FURTHER SAFETY EQUIPMENT (APRON, FOOTWEAR, ETC.) SHOULD BE USED AS NECESSARY TO PREVENT CONTACT WITH THE MATERIAL. AVOID CONTACT WITH THE EYES. WEAR SPLASH-PROOF GOGGLES OR SAFETY SPECTACLES WITH SIDES.

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#### SECTION 11. ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES: LARGE SPILLS: WEAR PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; DISPOSE OF PROPERLY. FLUSH AREA WITH WATER, BEING CERTAIN THAT THIS DILUTED MATERIAL IS NOT FLUSHED INTO STORM DRAINS OR WATER SUPPLIES. SMALL SPILLS: TAKE UP WITH AN ABSORBENT MATERIAL AND DISPOSE OF PROPERLY. SEE PRODUCT ENVIRONMENTAL DATA SECTION (EDS) FOR WASTE DISPOSAL AND OTHER ENVIRONMENTAL INFORMATION. IN STORAGE THE MONOMER WILL MIGRATE FROM THE EMULSION AND ESTABLISH AN EQUILIBRIUM BETWEEN THE HEADSPACE IN THE STORAGE CONTAINER AND THE LIQUID EMULSION. LEVELS IN EXCESS OF ACCEPTABLE EXPOSURES CAN ACCUMULATE IN NON-VENTED HEADSPACES ABOVE THE EMULSION. ALL PROCEDURES APPROPRIATE FOR A CONFINED SPACE ENTRY SHOULD BE COMPLETED PRIOR TO PERFORMING ANY WORK IN A BULK STORAGE TANK. IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE BY RCRA CRITERIA (40 CFR 261). UNDER RCRA, IT IS THE RESPONSIBILITY OF THE USER OF PRODUCTS TO DETERMINE, AT THE TIME OF DISPOSAL, WHETHER PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE. THIS IS BECAUSE PRODUCT USES, TRANSFORMATIONS, MIXTURE, PROCESSES, ETC. MAY RENDER THE RESULTING MATERIAL HAZARDOUS.

WASTE DISPOSAL METHOD: SOLIDIFY AND DISPOSE OF IN AN APPROVED CHEMICAL WASTE LANDFILL OR INCINERATE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE. OBSERVE ALL LABELED HAZARD PRECAUTIONS.

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SECTION 12. SPECIAL PRECAUTIONS: STORE IN A COOL, DRY PLACE. AVOID TEMPERATURE EXTREMES. PROTECT FROM FREEZING, PRODUCT STABILITY MAY BE AFFECTED.

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SECTION 13. TRANSPORTATION REQUIREMENTS NOT HAZARDOUS FOR DEPARTMENT OF TRANSPORTATION PURPOSES.

DATE REVISED: 01/31/02

ALL INFORMATION, RECOMMENDATIONS, AND SUGGESTIONS APPEARING HEREIN CONCERNING OUR PRODUCT ARE BASED UPON TESTS AND DATA BELIEVED TO BE RELIABLE. HOWEVER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY, AND SUITABILITY FOR HIS OR HER OWN USE OF THE PRODUCT DESCRIBED HEREIN. SINCE THE ACTUAL USE BY OTHERS IS BEYOND ENVIRONMENTAL TECHNOLOGY, INC.'S CONTROL, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE BY ENVIRONMENTAL TECHNOLOGY, INC. AS TO THE EFFECTS OF SUCH USE, THE RESULTS TO BE OBTAINED, OR THE SAFETY AND TOXICITY OF THE PRODUCT.