

**SECTION 1. PRODUCT IDENTIFICATION**

ORIGINAL: MARCH 26, 1999

REVISION: APRIL 30,2003

REASON FOR REVISION: TRANSPORT INFORMATION CHANGES BASED ON CONTAINER SIZE.

**PRODUCT NAME(S): EOS A/P-EC ALL PURPOSE MASONRY CLEANER**

**EOS ALL PURPOSE MASONRY/EFFLORESCENCE CLEANER**

**EOS SYSTEMS**

**ENDUR-O-SEAL USA, INC.**

**12502 LAZYWOOD**

**PINEHURST, TEXAS, 77362**

**TEL (281) 356-5117 /FAX (281) 356-9332**

**CHEMICAL FAMILY: N/A; PROPRIETARY**

**FORMULA: PROPRIETARY FORMULATION**

**THESE PRODUCTS ARE AQUEOUS BASED PENETRATING COMPOUNDS FOR REMOVAL OF SALT, LIME STAINS FROM PORPOUS AND NON POROUS CEMENTITIOUS OR CLAY CONSTRUCTION MATERIALS. REFER TO PRODUCT BULLETINS FOR SPECIFIC APPLICATION DATA.**

**SECTION 2. INGREDIENTS/ COMPOSITION**

<u>PRODUCTS/ CAS NUMBER(S)</u>	<u>ACGIH TLV TWA</u>	<u>OSHA PEL STEL</u>	<u>OSHA PEL TWA</u>	<u>OSHA PEL STEL</u>	<u>UNITS</u>	<u>APPROX. WGHT.%</u>
<b>NON HAZARDOUS</b>						
TRADE SECRET	FDA&FEMA "GENERALLY RECOGNIZED AS SAFE" < 7					
EXPANSION AGENTS (MIXTURE)						
68155-38-4	NE	NE	NE	NE	NA	<2
112-90-3						
68554-67-6						
CYCLIC AMIDE						
872-50-4	NE	NE	NE	NE	NA	<20
DEIONIZED WATER						
112-90-3	NE	NE	NE	NE	NA	40 - 60
TRADE SECRET	NE	NE	NE	NE	NA	<19
<b>HAZARDOUS</b>						
HYDROGEN PEROXIDE						
7722 - 84 - 1 (ACGIH TLV @ CONCENTRATION)			7.1 PPM, 10MG/M3, - 8 HR. TWA			
(OSHA PEL @ CONCENTRATION)			7.1 PPM, 10MG/M3, - 8 HR. TWA			
HYDROGEN CHLORIDE SOLUTION						
7647 - 01 -0		5 PPM			5PPM PPM	<1

**SECTION 3. HAZARDS IDENTIFICATION**

POTENTIAL HEALTH EFFECTS:

INGESTION:

THIS MATERIAL IS A SIGNIFICANT HEALTH HAZARD IF INGESTED IN LARGE QUANTITIES. IRRITATION OF MUCOUS MEMBRANES OF THROAT, ESOPHAGUS AND STOMACH WHICH MAY RESULT IN VOMITTING, DIGESTIVE TRACT SHOCK OR DEATH MAY OCCUR.

SKIN CONTACT:

NOT SIGNIFICANT: MAY CAUSE MILD SKIN IRRITATION. SKIN CHAPPING MAY DEVELOP AFTER EXTREME REPEATED CONTACT,

INHALATION:

=====

INHALATION OF CONCENTRATED VAPORS CAN CAUSE MILD IRRITATION OF THE UPPER RESPIRATORY TRACT (NOSE, THROAT) POSSIBLE FOLLOWED BY CHEST DISCOMFORT, COUGH AND SHORTNESS OF BREATH.

EYE CONTACT:  
MAY CAUSE A MILD BURNING SENSATION/ IRRITATION TEARING, REDNESS AND SWELLING. PROLONGED UNTREATED CONTACT WILL CAUSE SEVERE BURNS AND OR PERMANENT DAMAGE.

MEDICAL CONDITIONS AGGRAVATED AS STATED ABOVE.

CHRONIC EFFECTS / CARCINOGENICITY:

THIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY OSHA, IARC, NTP OR ACGIH.

MEDICAL LIMITATIONS:

RESTRICT CONTACT BY PERSONS WITH ACNE, SKIN SENSITIVITY OR SKIN DISEASES FOR EXPOSURE COULD AGGRAVATE THESE CONDITIONS.

EFFECTS OF OVER EXPOSURE:

ACUTE: CENTRAL NERVOUS SYSTEM DEPRESSION WITH EXTREME EXPOSURE; EFFECTS MAY INCLUDE ANESTHESIA, COMA, RESPIRATORY ARREST. OXYGEN DEPRIVATION IS POSSIBLE IF WORKING IN A CONFINED NON VENTILATED AREA.

CHRONIC: NO KNOWN MAJOR CUMMULATIVE OR LATENT EFFECTS HAVE BEEN REPORTED.

=====

## SECTION 4. FIRST AID MEASURES

=====

INGESTION:

DO NOT INDUCE VOMITING. IF VOMITING OCCURS KEEP AIRWAY CLEAR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY. IF SWALLOWED IN LARGE AMOUNTS OXYGEN MAY BE RELEASED. THE DISTENTION OF THE STOMACH OR ESOPHAGUS MAY BE INJURIOUS. INSERTION OF A GASTRIC TUBE MAY BE ADVISABLE.

SKIN CONTACT:

WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHES AND FOOTWEAR. SEEK MEDICAL ATTENTION IF SYMPTOMS ARISE.

INHALATION:

REMOVE TO FRESH AIR, RESTORE BREATHING IF NEEDED; ADMINISTER OXYGEN; SEEK MEDICAL HELP IF REQUIRED.

EYE CONTACT:

FLUSH EYES THOROUGHLY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.

NOTES TO PHYSICIAN:

GASTRIC LAVAL ONLY IF A LARGE QUANTITY HAS BEEN INGESTED. TREAT SYMPTOMATICALLY.

=====

## SECTION 5. FIRE FIGHTING MEASURES

=====

FLASH POINT: (AQUEOUS SOLUTION)

NA

NA

METHOD: TCC

AUTOIGNITION TEMP:

>285 °C

>513 °F

FLAMMABLE LIMITS IN AIR:

% BY VOLUME UPPER

N/A

% BY VOLUME LOWER

N/A

SENSITIVITY TO MECHANICAL IMPACT: NO

SENSITIVITY TO STATIC DISCHARGE: NONE EXPECTED; MATERIAL HAS A FLASHPOINT ABOVE 200 °F.

EXTINGUISHING MEDIA:

FOAM, DRY CHEMICAL, CARBON DIOXIDE. WATER MAY BE INEFFECTIVE UNLESS USED IN FAVORABLE CONDITIONS BY TRAINED FIREFIGHTERS.

SPECIAL FIREFIGHTING PROCEDURES: NONE

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

CONFINE AREA TO CLEANUP PERSONNEL. VENTILATE AREA AND WEAR PROTECTIVE GEAR AS REQUIRED, WIPE UP SPILL WITH AN INERT MATERIAL AND PLACE IN AN APPROVED NON METALLIC CONTAINER FOR DISPOSAL. REMOVE SOURCES OF IGNITION. DISPOSE OF EXPENDED MATERIAL AND ABSORBENTS WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

**SECTION 7. HANDLING AND STORAGE**

- USE A PROPER GROUP STRAP ON HANDLING AND PUMPING EQUIPMENT.
- PREFERABLY UTILIZE EXPLOSION PROOF ELECTRICAL EQUIPMENT.
- RECOMMENDED STORAGE SHOULD BE ABOVE 0 °C (32 °F) AND BELOW 38 °C (100 °F.)
- KEEP ORIGINAL OR STORAGE CONTAINERS CLOSED WHEN NOT IN USE.
- AVOID BREATHING VAPORS.
- AVOID CONTACT WITH SKIN AND EYES.
- USE ONLY IN WELL VENTILATED AREAS.

**SECTION 8. PERSONAL PROTECTION/ EXPOSURE LIMITS**

RESPIRATORY PROTECTION: USE IN WELL VENTILATED AREA. USE APPROVED NIOSH RESPIRATOR IF TLV IS EXCEEDED.

PROTECTIVE GLOVES: RUBBER

EYE AND FACE PROTECTION: SAFETY GLASSES

ENGINEERING: EXHAUST VENTILATION, SHOWERS, EYE WASH STATIONS

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

INITIAL BOILING POINT:	100 °C	212 °F
VAPOR PRESSURE (20 °C)	< 5	
VAPOR DENSITY: (AIR=1)	UNKNOWN	
MELTING POINT:	UNKNOWN	
FREEZING POINT:	0 °C	32 °F
APPEARANCE:	HAZY CLEAR LIQUID	
ODOR:	SLIGHT AMINE / LEMON ODOR	
EVAPORATION RATE (BuAc =1)	< 1	
VOLITILE CHARACTERISTICS	NEGLIBLE	
SPECIFIC GRAVITY (WATER = 1)	1.03	
SOLUBILITY IN H2O AT 20 °C	COMPLETE	

**SECTION 10. STABILITY AND REACTIVITY**

STABILITY: STABLE  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
HAZARDOUS THERMAL DECOMPOSITON/ COMBUSTION PRODUCTS: FUMES/ SMOKE/ CARBON  
MONOXIDE/ ALDEHYDES/ SILICON DIOXIDE/ FORMALDEHYDE/  
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDANTS/ CONCENTRATED OXYGEN/ SODIUM HYPO  
CHLORITE/ CALCIUM HYPO CHLORITE.

CONDITONS TO AVOID: KEEP AWAY FROM HEAT, SPARKS, AND L=FLAMES, AVOID ANY SOURCE OF IGNITION. AVOID CONTACT WITH ACIDIC, BASIC, OR OXIDIZING AGENTS AND METALLIC CATALSYTS LIKE TIN SOAPS AND NOBLE METALS.

**SECTION 11. TRANSPORT INFORMATION**

SHIPPING NAME: AQUEOUS BIODEGRADABLE MASONRY CLEANER  
DOT HAZARD CLASS: N/A (Below Threshold quantity of 30 gallons)  
PLACARDS: N/A  
DOT I.D. NUMBER: N/A  
REPORTABLE QUANTITY: 100 LBS.  
PLEASE CHECK WITH MANUFACTURER FOR TRANSPORT INFORMATION FOR CONTAINERS EXCEEDING 30 GALLONS.

**SECTION 12. REGULATORY INFORMATION**

TSCA: THIS MATERIAL OR ITS COMPONENTS ARE LISTED ON THE TSCA INVENTORY LIST AND COMPLY WITH APPLICABLE RULES AS OF THIS WRITING.

SARA 302: NONE FOUND

SARA 311 & 312: NONE FOUND

SARE 313: THIS MATERIAL DOES NOT CONTAIN ANY INGREDIENTS ON THE LIST OF TOXIC CHEMICALS SUBJECT TO SECTION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III), IN EXCESS OF THE APPLICABLE MINIMUM CONCENTRATIONS AS PER SECTION 372.38 (a).

**HAZARD RATING SYSTEM:**

MFPA No. 704, 1985 EDITION      1 HEALTH      0 FLAMMABILITY      2 REACTIVITY

HMIS      1 HEALTH      0 FLAMMABILITY      2 REACTIVITY

**SECTION 13. ADDITIONAL INFORMATION**

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH CFR 1910. 1200. ALL INFORMATION, RECOMMENDATIONS AND SUGGESTIONS APPEARING HEREIN CONCERNING OUR PRODUCT(S) ARE BASED UPON TESTS AND DATA BELIEVED TO BE RELIABLE, HOWEVER, IT IS THE USER'S SOLE RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THE PRODUCTS DESCRIBED HEREIN. SINCE THE ACTUAL USE OF THESE PRODUCTS IS BY OTHERS AND BEYOND OUR CONTROL, NO GUARENTEE EXPRESSED OR IMPLIED IS MADE BY ENDUR-O-SEAL USA, INC. AS TO THE EFFECTS OF SUCH USE, INCLUDING THE RESULTS TO BE OBTAINED OR THE SAFETY AND TOXICITY OF THE PRODUCTS NOR DOES ENDUR-O-SEAL USA, INC ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THE PRODUCTS REFERRED TO HEREIN. NOR IS THE INFORMATION HEREIN TO BE CONSTRUED AS ABSOLUTELY COMPLETE SINCE ADDITIONAL INFORMATION MAY BE NECESSARY OR DESIRABLE WHEN PARTICULAR OR EXCEPTIONAL CONDITIONS OR CIRCUMSTANCES EXIST OR BECUASE OF APPLICABLE LAWS OR GOVERNMENT REGULATION.

NA = NOT APPLICABLE  
NE = NOT ESTABLISHABLE  
NF = NONE FOUND