

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME(S):
EOS 690 MULTI STRENGTH CLEANER

MSDS NUMBER

EOS SYSTEMS
ENDUR-O-SEAL USA, Inc.
12502 LAZYWOOD ST.
PINEHURST, TEXAS, 77362
TEL (281) 356-5117 /FAX (281) 259-2281

CHEMICAL FAMILY: N/A PROPRIETARY
FORMULA: PROPRIETARY FORMULATION

THIS PRODUCTS IS AN AQUEOUS BASED COMPOUND FOR REMOVAL OF SEVERE MORTAR, SALT AND LIME STAINS FROM POROUS CEMENTITIOUS, LIMESTONE OR CLAY CONSTRUCTION MATERIALS. REFER TO PRODUCT BULLETIN 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>
TRADE SECRET EXPANSION AGENTS (MIXTURE) 68155-38-4	FDA & FEMA "GENERALLY RECOGNIZED AS SAFE" <7					
CYCLIC AMIDE 872-50-4	NE	NE	NE	NE	NA	<2
DEIONIZED WATER 7732-18-5	NE	NE	NE	NE	NA	<2
TRADE SECRET	NE	NE	NE	NE	NA	65-69
TRADE SECRET	NE	NE	NE	NE	NA	<2
HAZARDOUS INORGANIC ACID BLEND (MIXTURE) HAZARDOUS INCLUDE: 7647-01-0 (ACGIH TLV @ CONCENTRATION) (OSHA PEL @ CONCENTRATION)	5PPM,10mg/m3, - 8HR. TWA 5ppm, 10mg/m3, -8 HR. TWA					

SECTION 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

INGESTION:
IRRITATION OF MUCOUS MEMBRANES OF THROAT, ESOPHAGUS AND STOMACH WHICH MAY RESULT IN VOMITTING. GI TRACT SHOCK DAMAGE WITH ULCERATION AND OR HEMORRHAGE OR DEATH MAY OCCUR

SKIN CONTACT: THIS PRODUCT CONTAINS HYDROCHLORIC ACID WHICH IS CORROSIVE TO BODY TISSUE. ULCERATION AND OR DEEP BURNS MAY DEVELOP UPON CONTACT.

=====

INHALATION: INHALATION OF VAPORS CAN CAUSE COUGHING AND CHOKING, SEVERE EXPOSURE MAY RESULT IN LARYNGEAL SPASM. LARYNGEAL EDEMA AND PULMONARY EDEMA.

EYE CONTACT:
CONTAINS HYDROCHLORIC ACID THAT WILL CAUSE BURNS AND PERMANENT EYE INJURY.

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 AS EXPOSURE COULD AGGRAVATE THESE CONDITIONS.

EFFECTS OF OVEREXPOSURE:
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.

=====

SECTION 4. FIRST AID MEASURES

=====

INGESTION: DILUTE BY LARGE AMOUNTS OF WATER
DO NOT INDUCE VOMITING. IF VOMITING OCCURS KEEP AIRWAY CLEAR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
IMMEDIATELY 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 30 MINUTES. SEEK MEDICAL ATTENTION.

NOTES TO PHYSICIAN:
NONE KNOWN

=====

SECTION 5. FIRE FIGHTING MEASURES

=====

FLASH POINT: (N/A; AQUEOUS SOLUTION)	NA	NA
METHOD: TCC		
AUTOIGNITION TEMP:	NA C	NA 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 UNDER FAVORABLE CONDITIONS BY TRAINED FIREFIGHTERS.

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD BE EQUIPPED WITH SCBA AND TURNOUT GEAR. WATER FOG IS THE MOST EFFECTIVE FOR CONTROLLING HCL VAPORS. HCL IS NON FLAMMABLE, BUT WILL GENERATE EXPLOSIVE HYDROGEN GAS AS A RESULT OF CONTACT WITH MOST METALS

SECTION 6. ACCIDENTAL RELEASE MEASURES

CONFINE AREA TO CLEANUP PERSONNEL. VENTILATE AREA AND WEAR PROTECTIVE GEAR AS REQUIRED, DILUTE SPILL WITH FRESH WATER AND NEUTRALIZE WITH LIME OR SODA ASH, NEUTRALIZED MATERIAL AND ABSORBENTS SHOULD BE DISPOSED OF IN ACCORDANCE 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.
- KEEP ORIGINAL OR STORAGE CONTAINERS CLOSED WHEN NOT IN USE. USE ONLY HDPE MIXING AND DISPENSING CONTAINERS
- 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 RESOIATORY IF TLV IS EXCEEDED.

PROTECTIVE GLOVES: CHEMICAL RESISTANT

EYE AND FACE PROTECTION: CHEMICAL SPLASH GOGGLES AND FACE SHIELD MUST BE WORN WHEN THE POSSIBILITY EXISTS FOR EYE OR SKIN CONTACT

ENGINEERING: EXHAUST VENTILATION, SHOWERS, EYE WASH STATIONS

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INITIAL BURNING POINT:	100 °C	212 °F
VAPOR PRESSURE (20 °C)	4-18 mmHg @20 C	
VAPOR DENSITY: (AIR=1)	UNKNOWN	
MELTING POINT:	UNKNOWN	
FREEZING POINT:	0 °C	32 °F
APPEARANCE:	HAZY/ CLEAR PINK LIQUID	
ODOR:	PUNGENT	
EVAPORATION RATE (BuAc =1)	< 1	
VOLATILE CHARACTERISTICS:	NEGLIGIBLE	
SPECIFIC GRAVITY (WATER = 1)	1.1	
SOLUBILITY IN H2O AT 20 °C	COMPLETE	

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: NOT EXPECTED TO OCCUR
HAZARDOUS THERMAL DECOMPOSITON/ COMBUSTION PRODUCTS: FUMES/ SMOKE/ CARBON MONOXIDE GAS RESULTING FROM CONTACT WITH METALS, ALKALIES, METAL OXIDES, AMINES, ESTERS AND OR OTHER INORGANICS WHICH CAUSE EXOTHERMIC REACTIONS THAT MAY BE VIOLENT.
INCOMPATIBILITY (MATERIALS TO AVOID): CYANIDES, NITRIC ACID, ORGANICS AND REDUCING AGENTS, METALS, ALKALIS, AVOID CONTACT WITH COTTON OR PAPER. CLOTHING OR PAPER SHOULD BE THOROUGHLY WASHED OR RINSED PRIOR TO DISGARDING.

CONDITONS TO AVOID: INCOMPATIBLE WITH FLAMMABLES OR COMBUSTIBLES. KEEP AWAY FROM METALS, SALTS

SECTION 11. TRANSPORT INFORMATION

DOT SHIPPING NAME: AQUEOUS ACIDIC MASONRY CLEANER
DOT HAZARD CLASS: 8
PLACARDS: UN 3264
DOT LABEL: CORROSIVE LIQUID, ACIDIC INORGANIC N.O.S.

SECTION 12. REGULATORY INFORMATION

NO ADDITIONAL TOXICOLOGICAL INFORMATION IS AVAILABLE FOR THIS MATERIAL

SECTION 12. REGULATORY INFORMATION

IN HIGH CONCENTRAIONS, THIS MATERIAL IS HARMFUL TO BIOMASS AND OR TOXIC TO AQUATIC LIFE

SECTION 12. REGULATORY INFORMATION

TSCA: THE FOLLOWING IS THE TOXIC SUBSTANCES CONTROL ACT (TSCA) CHEMICAL INVENTORY STATUS OF THE REQUIRED COMPONENTS PER SECTION 2:

SARA 313: CAS: 7647 - 01 - 1 AMOUNT 13.72% // NAME : HYDROCHLORIC ACID

RCRA HAZ. WASTE No. 0002

CERCLA: YES REPORTABLE QUANTITY: YES, 5000 LBS.

HMIS 3 HEALTH 0 FLAMMABILITY 0 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 REFFERED 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