

SECTION 1. PRODUCT IDENTIFICATION

ORIGINAL: MARCH 26, 1999
REVISION: APRIL 30, 2003
REASON FOR REVISION: TRANSPORT INFORMATION CHANGES BASED ON CONATINER SIZE.

PRODUCT NAME:
EOS ALL PURPOSE EFFLORESCENCE CLEANER

MANUFACTURER:
Endur-O-Seal USA, Inc.
12502 LAZYWOOD LANE
PINEHURST, TEXAS 77362
TEL (800) 259-8855 /FAX (281) 356-9332

CHEMICAL FAMILY: N/A; PROPRIETARY
FORMULA: PROPRIETARY FORMULATION

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

SECTION 2. INGREDIENTS/ COMPOSITION

PRODUCTS/ CAS NUMBER(S)	ACGIH TLV		OSHA PEL		UNITS	APPROX. WGHT.%
	TWA	STEL	TWA	STEL		
NON HAZARDOUS						
TRADE SECRET						
EXPANSION AGENTS (MIXTURE)	NE	NE	NE	NE	NA	<7
68155-38-4						<2
112-90-3						
CYCLIC AMIDE	NE	NE	NE	NE	NA	<20
872-50-4						
DEIONIZED WATER						
7732-18-5	NE	NE	NE	NE	NA	40-60
TRADE SECRET	NE	NE	NE	NE	NA	<19
HAZARDOUS						
HYDROGEN PEROXIDE						
7722-84-1 (ACGIH TLV @ CONCENTRATION)	7.1 ppm, 10 mg/m3, - 8 HR. TWA					
(OSHA PEL @ CONCENTRATION)	7.1 ppm, 10 mg/m3, - 8 HR. TWA					
HYDROGEN CHLORIDE SOLUTION						
7647-01-0	5 ppm		5 ppm	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.

HAZARDS CON'T

INHALATION:
MILD IRRITATION OF THE UPPER RESPIRATORY TRACT POSSIBLE FOLLOWED BY DIZZINESS, HEADACHE.

EYE CONTACT:
MAY CAUSE A MILD BURNING SENSATION/ IRRITATION.

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 LIMITAIONS:
RESTRICT CONTACT BY PERSONS WITH ACNE, SKIN SENSITIVITY OR SKIN DISEASE, AS EXTENDED 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.

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.

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:	(N/A AQUEOUS SOLUTION)	N/A	N/A
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

CONFINED AREA TO CLEAN-UP PERSONNEL. VENTILATE AREA AND WEAR PROTECTIVE GEAR AS REQUIRED, WIPE UP SPILL WITH AN INERT MATERIAL AND PLACE IN AN APPROVED 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: CHEMICAL RESISTANT

EYE AND FACE PROTECTION: CHEMICAL SPLASH GOGGLES AND FACE SHIELD MUST BE WORN WHEN THE POSSIBILITY EXISTS FOR EYE 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)	< 5	
VAPOR DENSITY: (AIR=1)	UNKNOWN	
MELTING POINT:	UNKNOWN	
FREEZING POINT:	0 °C	32 °F
APPEARANCE:	HAZY CLEAR LIQUID	
ODOR:	SLIGHT AMMONIA / LEMON ODOR	
EVAPORATION RATE (BuAc =1)	< 1	
% VOLATILE BY VOLUME:	NEGLIGIBLE	
SPECIFIC GRAVITY (WATER = 1)	1.03	
SOLUBILITY IN H2O AT 20 °C	COMPLETE	

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: NOT EXPECTED TO OCCUR
HAZARDOUS THERMAL DECOMPOSITION/ COMBUSTION PRODUCTS: FUMES/ SMOKE/ CARBON MONOXIDE/ HYDROGEN GAS
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 DISCARDING.
CONDITIONS TO AVOID: INCOMPATIBLE WITH FLAMMABLES OR COMBUSTIBLES. KEEP AWAY FROM METALS, SALTS.

SECTION 11. TRANSPORT INFORMATION

DOT SHIPPING NAME: AQUEOUS BIODEGRADABLE MASONRY CLEANER
 DOT HAZARD CLASS: 5.0 N/A (Below threshold quantity of 30 gallons)
 PLACARDS: UN 2014
 DOT LABEL: OXIDIZER, CORROSIVE
 REPORTABLE QUANTITY: 100 lbs.

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: NOT LISTED ON EHS (EXTREMELY HAZARDOUS SUBSTANCES) LIST. REPORTABLE QUANTITIES: 100 LBS

SARA 311 & 312: NONE FOUND IN EXCESS OF THE APPLICABLE MINIMUM CONCENTRATIONS

SARA 313: THIS MATERIAL DOES NOT CONTAIN THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 AND 40 CFR 372.
 NONE

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA):

NO CHEMICALS IN THIS MATERIAL WITH KNOWN CAS NUMBERS ARE SUBJECT TO THE REPORTING REQUIREMENTS OF CERCLA.

THE FOLLOWING INGREDIENT FORM SECTION TOW IS SUNJECT TO THE RESPECTIVE REPORTING REQUIREMENTS:
 NONE

HAZARD RATING SYSTEM:			
NFPA No. 704, 1985 EDITION	1 HEALTH	0 FLAMMABLILITY	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 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 BECAUSE OF APPLICABLE LAWS OR GOVERNMENT REGULATION.

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