

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME:
EOS POLY TOP SEAL (CS-20) PLUS

MSDS NUMBER 2

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

CHEMICAL FAMILY: AQUEOUS POLYSILOXANE DISPERSION – SEALER
FORMULA: PROPRIETARY MIXTURE

THESE PRODUCTS ARE AQUEOUS BASED PENETRATING COMPOUNDS FOR WATERPROOFING OF NATURAL AND SYNTHETIC MATERIALS. REFER TO PRODUCT BULLETINS FOR SPECIFIC APPLICATION DATA.

SECTION 2. INGREDIENTS/ COMPOSITION

<u>PRODUCTS/ CAS NUMBER(S)</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>		<u>UNITS</u>	<u>APPROX. WGHT.%</u>
	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>		
CONTAINS ONE OR MORE OF THE FOLLOWING SILANES/SILOXANES:						MIXTURE
AMINOETHYLAMINOPROPYLPOLYSILOXANES 67923-07-3	NF	NE	NE	NF	NA	8 – 12
DIMETHYL, HEXYSILOXANES 157709-77-8	NA	NE	NA	NE	NA	
SILANOL/STPD 68554-67-6	NF	NE	NF	NE	NA	
EXPANSION AGENTS/CATYLISTS (MIXTURE) 68155-38-4	NE	NE	NE	NE	NA	< 2
112-90-3						
ALCOHOLS 64-17-5						MIXTURE < 5
123-17-1						
CROSSLINKING AGENT 29812-79-1	NE	NE	NE	NE	NA	< 1
DEIONIZED WATER	NE	NE	NE	NE	NA	80 – 84

SECTION 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

INGESTION:
IRRITATION OF MUCOUS MEMBRANES OF THROAT, ESOPHAGUS AND STOMACH WHICH MAY RESULT IN VOMITTING.

SKIN CONTACT:
NOT SIGNIFICANT: MAY CAUSE MILD SKIN IRRITATION. SKIN CHAPPING MAY DEVELOP AFTER EXTREME REPEATED CONTACT,
PROGRESSING TO DERMATITIS IF HANDS ARE NOT WASHED.

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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 LIMITATIONS:
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.

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SECTION 4. FIRST AID MEASURES

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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 LAVAGE ONLY IF A LARGE QUANTITY HAS BEEN INGESTED. TREAT SYMPTOMATICALLY.

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SECTION 5. FIRE FIGHTING MEASURES

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FLASH POINT: (AQUEOUS SOLUTION)	>93.5 °C (MIN)	>200 °F (MIN)
METHOD: TCC		
AUTOIGNITION TEMP:	>482 °C	>900 °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 FAVORABLE CONDITIONS BY TRAINED FIREFIGHTERS.

SPECIAL FIREFIGHTING PROCEDURES:
MINIMIZE BREATHING OF GASES, VAPOR FUMES OR DECOMPOSITION PRODUCTS. USE (SCBA) IN ENCLOSED OR CONFINED AREAS. WATER CAN BE USED TO COOL AND PROTECT MATERIALS AND MEN, DISPERSE VAPORS, FLUSH SPILLS AWAY FROM EXPOSURES.

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 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 RESOIATORY 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 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:	GREY / WHITE HAZY LIQUID	
ODOR:	SLIGHT AMINE / LEMON ODOR	
EVAPORATION RATE (BuAc =1)	< 1	
% VOLATILE BY VOLUME:	83%	
V.O.C. CONTENT BY VOLUME:	< 2%	
V.O.C. CONTENT:	< 0.165 Lb/ Gal	
SPECIFIC GRAVITY (WATER = 1)	1.03 – 1.10	
SOLUBILITY IN H2O AT 20 °C	APPRECIABLE	

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

DOT SHIPPING NAME: AQUEOUS POLY SILOXANE DISPERSION - SEALER
DOT HAZARD CLASS: 55
PLACARDS: N/A
DOT I.D. NUMBER: N/A
REPORTABLE QUANTITY: N/A
RESTRICTONS: N/A

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 312: 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	0 HEALTH	0 FLAMMABILITY	0 REACTIVITY
HMIS	0 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 EOS SYSTEMS OR 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 EOS SYSTEMS OR 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 BECAUSE OF APPLICABLE LAWS OR GOVERNMENT REGULATION.

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