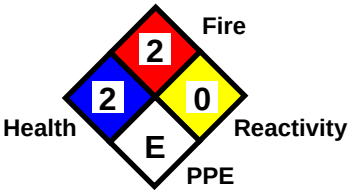
MATERIAL SAFETY DATA SHEET

Sealoflex®
Waterproofing Systems



NFPA 704 DESIGNATION HAZARD RATING
4 = Extreme 3 = High 2 = Moderate
1 = Slight 0 = Insignificant

Issue Date: 8/11

Supersedes: N/A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identity: **Enviroflex™**
Product Use: **Waterproofing System**
Manufacturer/Distributor: **Sealoflex**
2520 Oscar Johnson Dr.
Charleston, SC 29405
Phone: 843-554-6466
Fax: 843-554-6458

Emergency Telephone No.
800-424-9300 (Chemtrec USA)

2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characteristics:
Proprietary

Information on Ingredients:

Type	CAS No.	Substance	Content (wt. %) Lower/Upper
----- Proprietary ------			1.0/5.0

Type: HYD - by-product upon hydrolysis, INHA – ingredient, NEBE - by-product, MONO - residual monomer, VERU – impurity, VUL - by-product upon vulcanization. ***NOTE:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH – non-hazardous, R – Reproductive toxin.

Substances listed in the Subsections “HAPS” and “California Proposition 65 Carcinogens/Reproductive Toxins” that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

3. HAZARD IDENTIFICATION

Hazards Classifications:
HMIS® rating (product as packaged):
Health: 2 Fire: 2 Reactivity: 0 PPE: E

Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. (HIMS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.

Canadian WHMIS Classification: D2A

Emergency overview and potential hazards: Acute health effects
Route of entry or possible contact: Eyes, skin, inhalation (hydrolysis products), ingestion.

EYE CONTACT: May cause eye irritation.
SKIN CONTACT: No known skin hazards.
INHALATION: See Sect. 3.2 “Additional information on acute health effects”. See Sect. 3.3 “Chronic health effects”.
INGESTION: Ingestion is not expected in industrial use. See Sect. 3.2 “Additional information on acute health effects”.
Additional Information on acute health effects:
This material releases methanol upon hydrolysis. According to literature methanol (CAS-No. 67-56-1) irritates mucous membranes, has skin drying and narcotic effects up to coma or death. Absorption by the skin is possible. Possibility of damage to heart, kidneys, liver and optic nerves (blindness) over a period of time. Due to the physical nature of this material (paste), exposure to dusts/particulates is not expected.
MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE: None known.
TARGET ORGANS AFFECTED: No known internal organ effects.
SIGNS AND SYMPTONS OF EXPOSURE: Refer to Acute Health Effects, Listed above.
CARCINOGENS/REPRODUCTIVE TOXINS: This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels. This material does not contain any reportable carcinogenic ingredients. Exposure to carcinogens cannot occur under normal conditions of use or during foreseeable emergencies. See Section 11 for Toxicological information, if any.

4. FIRST AID MEASURES

GENERAL INFORMATION: Get medical attention immediately. Remove contaminated clothing and shoes. If unconscious, treat for shock.
EYE CONTACT: **If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.**
SKIN CONTACT: **If contact with skin, immediately flush skin with plenty of water for at least 15 min.**
INHALATION: **If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.**
SWALLOWED: **If swallowed, if conscious, give no more than two glasses of water and induce vomiting. Vomiting can be induced by giving Syrup of Ipecac. Give fluids until the vomit is clear.**

5. FIRE FIGHTING MEASURES

Flammable properties:		**Method:**
Flash point:	**103°C (217°F)**	**(ISO 3679)**
Boiling point/boiling range:	**no data at hand**	
Lower explosion limit (LEL)	**Not applicable**	
Ignition temperature:	**404°C (759°F)**	**(EN 14522)**

FIRE AND EXPLOSION HAZARDS: **Material supports combustion. Vapors are heavier than air and may travel along the ground, be moved by ventilation systems, settle in pits or low areas, and be ignited by ignition sources distant from the handling point. The material is lighter than water, burning spilled material will float on top of any water released from hose or sprinkler systems spreading the fire beyond the initial fire response area. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur.**
RECOMMENDED EXINGUISHING MEDIA: **AFFF alcohol compatible foam. Carbon dioxide. Dry chemical. Water may be used to cool tanks and structures adjacent to the fire.**
UNSUITABLE EXTINGUISHING MEDIA: **Water may be ineffective in controlling fires of this material. Do not use water to fight these fires.**
SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES: **N/A**
FIRE FIGHTING PROCEDURES: **Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.**

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS: **Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapors.**
HAZWOPER PPE Level: D
CONTAINMENT: **Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material. (e.g. earth).**
Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number: (800) 424-8802.
METHODS FOR CLEANING UP: **Do not flush away with water. Form small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Exhaust vapors.**

7. HANDLING AND STORAGE

HANDLING – PRECAUTIONS FOR SAFE HANDLING:
Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10.2.
Precautions against fire and explosion:
Products can separate methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.
STORAGE – CONDITIONS FOR STORAGE ROOMS AND VESSELS:
Make sure there is no possibility of entering the ground.
ADVICE FOR STORGE OF INCOMPATIBLE MATERIALS: **N/A**
FURTHER INFORMATION FOR STORAGE:
Protect against moisture. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.
MINIMUM TEMPERATURE ALLOWED DURING STORAGE AND TRANSPORTATION: **0°C (32°F)**
MAXIMUM TEMPERATURE ALLOWED DURING STORAGE AND TRANSPORTATION: 5**0°C (122°F)**

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS – VENILATION: **Use with adequate ventilation. Recommended.**
LOCAL EXHAUST: **Where mist or vapor may be generated. Recommended.**

ASSOCIATE SUBSTANCES WITH SPECIFIC CONTROL PARAMETERS SUCH AS LMIT VALUES
MAXIMUM AIRBORNE CONCENTRATIONS AT THE WORKPLACE:

CAS No.	Material	Type	mg/m^3	ppm	Dust Fract.
67-56-1	Methanol	OSHA PEL	260.0	200.0	
67-56-1	Methanol	ACGIH TWA		200.0	

Re Methanol (CAS–no. 67-56-1): STEL is 250 ppm, skin notation (ACGIH): STEL is 250 ppm, skin notation (NIOSH).

PERSONAL PROTECTION EQUIPMENT (PPE) -
RESPIRATORY PROTECTION:
HAND PROTECTION:
Safety glasses with side shields. Additional eye and face protection, splash-proof goggles, hood, full- faced respirator, or face shield is recommended if splashing could occur.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Additional skin protection, such as SARANEX coated Tyvek apron, over-sleeves, lab coat, coveralls, or protective suit should be worn if splashing could occur. Provide eye bath and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State	**Liquid**
Color	**White or Gray**
Odor	**Characteristic**

SAFETY PARAMETERS		METHOD
Melting point/melting range	**No data at hand**	
Boiling point/boiling range	**No data at hand**	
Flash point	**103°C (217°F)**	**(ISO 3679)**
Ignition temperature	**404°C (759°F)**	**(EN 14522)**
Lower explosion limit (LEL)	**Not Applicable**	
Vapor Pressure	**Not Applicable**	
Density	**1.44 g/cm^3 at 25°C (77°F), at 1013 hPA**	**(DIN 51757)**
Water Solubility/miscibility	**Not applicable**	
Ph-Value	**Not applicable**	
Viscosity (dynamic)	**36200 mPa.s at 23°C (73°F)**	**(BROOKFIELD)**

FURTHER INFORMATION
Explosion limits for released methanol: 5.5-44% (V).

10. STABILITY & REACTIVITY

GENERAL:
If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
CONDITIONS TO AVOID: **Moisture**
MATERIALS TO AVOID: **Reacts with water. Reaction causes the formation of methanol.**
HAZARDOUS DECOMPOSITION PRODUCTS: **Under the effect of humidity, water and protic agents: methanol.**

11. TOXICOLOGICAL INFORMATION

GENERAL INFORMAION: **No toxicological data exists for this material.**

TOXILOGICAL DATA – ADDITIONAL INFORMATION / REMARKS:
Oral toxicity: Ingestion of methanol or methanol releasing compounds may result in delayed damage to the optic nerves, causing permanent blindness, and if untreated may cause other potentially fatal toxic effects.

12. ECOLOGICAL INFORMATION

INFORMATION ON ELIMINATION (PERSISTENCE AND DEGRADABILITY) – BIODEGRADATION/FURTHER INFORMATION:
Silicone content: Biologically not degradable. The product of hydrolysis (methanol) is readily biodegradable.
FURTHER INFORMATION:
Silicone content: Elimination by absorption to activated sludge.

BEHAVIOR IN ENVIRONMENTAL COMPARTMENTS
MOBILITY
FURTHER INFORMATION

ECOTOXICOLOGICAL EFFECTS:
According to past experience toxicity to fish is improbable.
EFFECTS IN SEWAGE TREATMENT PLANTS (BACTERIA TOXICITY: RESPIRATION-/REPRODUCTION INHIBITION):
According to current knowledge adverse effects on water purification plants are not expected.

ADDITIONAL INFORMATION - OTHER HARMFUL EFFECTS

GENERAL INFORMATION:
No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL – RECOMMENDATION:
Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

PACKAGING DISPOSAL – RECOMMENDATION:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14. TRANSPORTATION INFORMATION

US DOT AND CANADA TDG SURFACE
Valuation: Not required for transport

TRANSPORT BY SEA IMDG-CODE:
Valuation: Not required for transport

AIR TRANSPORT ICAO-TI/IATA-DGR
Valuation: Not required for transport

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA inventory status and TSCA information: This material or is components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) EXPORT NOTIFICATION: **This material does not contain any TSCA 12(b) regulated chemicals.**

CERCLA REGUALTED CHEMICALS: **This material does not contain Any SERCLA regulated chemicals.**

SARA 302 EHS CHEMICALS: **This material does not contain any SARA extremely hazardous substances.**

SARA 311/312 HAZARD CLASS: **Immediate (acute) health hazard. Fire hazard.**

SARA 313 CHEMICALS: **This material does not contain any SARA 313 chemicals above de minimum levels.**

HAPS (HAZARDOUS AIR POLLUTANTS):
67-56-1 Methanol
68-12-2 N, N-Dimethylformamide

STATE REGULATIONS

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS:
This material does not contain any chemicals known to the state of California to cause reproductive effects.

15. REGULATORY INFORMATION, CONTINUED

MASSACHUSETTS SUBSTANCE LIST: **1317-65-3 Calcium Carbonate**

PENNSYLVANIA RIGHT-TO-KNOW SUBSTANCE LIST: **1317-65-3 Calcium Carbonate**

CANADIAN REGULATIONS
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS HAZARD CLASSES: **D2A**

DSL STATUS: **This material or one or more of its components is not listed on the Canadian Domestic Substance List.**

OTHER INTERNATIONAL REGULATIONS
EU Risk Phases: N/A R-Phrase: N/A S-Phrase: N/A

DETAILS OF INTERNATIONAL REGISTRATION STATUS:
Listed on or in accordance with the following inventories:
EINECS – Europe
ELINCS – Europe
TSCA - USA

16. OTHER INFORMATION

ADDITIONAL INFORMATION:

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur form the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

GLOSSARY OF TERMS"

ACGIH – American Conference of Governmental Industrial Hygienists
DOT – Department of Transportation
hPa – Hectopascals
mPa*s – Milli Pascal-Seconds
OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Level
Ppm – Parts per Million
SARA – Superfund Amendments and Reauthorization Act
STEL – Short Term Exposure Level
TSCA – Toxic Substances Control Act
TWA – Time Weighted Average
WHMIS – Canadian Workplace Hazardous Materials Identification System

FLASH POINT DETERMINATION METHODS	COMMON NAME
ASTM D56	**Tagliabue (Tag) closed cup**
ASTM D92, DIN 51376, ISO 2592	**Cleveland open cup**
ASTM D93, DIN 51758, ISO 27919	**Pensky-Martens closed cup**
ASTM D3278, DIN 55680, ISO 3679	**Setaflash or Rapid closed cup**
DIN 51755	**Abel-Pensky closed up**

CONVERSION TABLE:
Pressure: 1 hPa *0.75 =1 mm Hg = 1 torr; 1 bar = 1000hPa
Viscosity: 1 mPa*s = 1 centipoise (cP)

This Material Safety Data Sheet is provided as an information resource only. It should not be taken as a warranty or representation for which Sealoflex® Inc. assumes legal responsibility. While Sealoflex® Inc. believes the information contained herein is accurate and compiled from sources believed to be reliable; it is the responsibility of the user to investigate and verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with applicable federal, state and local regulations.