DURASEAL ZERO™ Concrete & Masonry Sealer
MATERIAL DATA SHEET SAFETY (MSDS)

MANUFACTURERS INFORMATION

ENVIROSEAL CORPORATION
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SECTION I - IDENTITY

Common Name Used on Label:	**Duraseal ZERO™**
Chemical Name / Chemical Family:	100% Acrylic
Transportation Classification:	Item No. 178120 / Class 55, Non HAZ-MAT Liquid plastic NOS
ECCN Number	**EAR99**
Intl Harmonization Code:	**Sch.. "B" / No. 3214**

SECTION II - HAZARDOUS INGREDIENTS Principal Hazardous

Components	%	TLV (UNITS)	PRODUCT CAS No..
Proprietary Co-Polymer:	15-29	None Established	Non Hazardous
Individual Residual Monomers	<0.1	None Established	Not Required
Aqua Ammonia	<0.1	1336-21-6	
Water:	70-85	7732-18-5	

All ingredient in this product are on the TSCA Inventory List

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

pH	8.6
Boiling Point:	greater than 100 c / 212 f
Melting Point:	-1c /29f
Specific Gravity: (water=1)	1.0001-1.115
Vapor Pressure: (mm Hg)	17.mm Hg @ 20^0 C/68f Water
Vapor Density (air=1)	< 1
Evaporation Rate: (Bac=1)	< 1 Water
Appearance:	Milky white
State:	Liquid
Solubility in Water:	Dilutable
VOC <2 g/l	EPA Test Method 24

SECTION IV - FIRE AND EXPLOSION DATA

Reactivity in Water:	None
NFPA Code:	000
Flash Point:	None, will not burn
Extinguisher Media:	Determined by surrounding materials, CO2, Foam, Dry Powder, water , spray or fog.
Special Fire Fighting Procedures:	None
Flammable Limits: (in air % by volume):	Not applicable
Auto Ignition Temperature:	None
Unusual Fire and Explosion Hazards:	None Polymer film can burn

SECTION V - PHYSICAL HAZARDS

Stability:	Stabile
Conditions to Avoid:	Heat in excess of 65c / 150f, and temperatures below 1c / 34f
Incompatibility	Oxidizers or Oxidizing Materials Hazardous Thermal Decompression From Fire Smoke, Carbon Dioxide, Products: and Carbon Monoxide
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	None

SECTION VI - HEALTH HAZARDS

Threshold Limit Value:	None Established1
Effects of Overexposure:	None Established
Toxicity Information:	Non Toxic
OSHA Permissible Exposure Limit:	None
ACGIH Threshold Limit Value:	None
Other Exposure Limit Used:	None Required
Carcinogenicity:	N.T.P., **Not Established** ,
Arc Monographs,	**Not Established**
OSHA Regulated:	**No**

REACTIVITY INFORMATION

Instability: This material is considered stable. However, avoid temperatures above 177C/350F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature. Hazardous Decomposition products. Thermal decomposition may yield acrylic monomers. Hazardous Polymerization: Product will not undergo polymerization. Incompatibility: There are no 'known materials which are incompatible with this product.

HEALTH EFFECTS FROM OVER EXPOSURE

Primary Routes of Exposure:	**Inhalation - Eye Contact - Skin Contact**
Inhalation:	inhalation of vapor or mist can cause the following: headache - nausea - Irritation of nose throat and lungs
Eye Contact	Direct contact with material can cause a slight irritation
Skin Contact	Prolonged or repeated skin contact can cause a. slight skin Irritation

TOXICITY INFORMATION

Acute Data: The Information shown in the **HEALTH EFFECTS FROM OVEREXPOSURE** Section is based on the toxicity profiles for a number of acrylic emulsions that are compositionally similar to this product Typical data are:

Human:

Oral LD50 - rat ;	>5000 mg/kg
Dermal LD5O - rabbit:	>5000 mg/kg
Skin irritation - rabbit:	practically non-irritating
Eye irritation - rabbit:	Inconsequential irritation

The aquatic 7-day LC50 for daphnids* was greater than 800 mg/L.
The aquatic 7-day LC50 for trout was greater than 1000 mg/L.

pH value	8.6
BOD value	4940 mg/l.
COD value	952,000 mg/L

* invertebrate species

The LC50 values are approximately 10-fold higher than the EPA's lowest toxicity criteria, thus results obtained for Duraseal ZERO are approximately 10-fold less toxic than materials which minimally meet the 100 mg/L, "practically non-toxic", criteria established by the EPA. The data are consistent with those for compositionally similar acrylic emulsions. The data do not suggest there is a concern for adverse environmental impact from proper use or even inadvertent misuse of **Duraseal ZERO™**

SECTION VII - EMERGENCY FIRST AID PROCEDURES11

Eye Contact:	Wash affected area with fresh water for about 15 minutes, If irritation occurs, call physician.
Ingestion:	if swallowed, give 2 glasses of fresh water to drink, consult a physician. Never give anything by mouth to an unconscious person..
Skin Contact:	Wash affected area with soap and water.
Inhalation:	Move patient to fresh air.

SECTION VIII - SPECIAL PROTECTION INFORMATION

NOTE: Safe handling of any chemical is always recommended, the following procedures are recommended for this product as well.

Respiratory Protection:	Approved NIOSH respirator
Ventilation:	Fresh Air
Protective Gloves:	Rubber, may be cleaned by washing off with mild soap & water
Eye Protection:	Splash goggles, see section VII for skin / ingestion information
Other Protective Clothing or Equipment:	Rinse product out of standard work clothes with water, alternatively use rubber apron or plastic suit.

SECTION IX - SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Precautions to be Taken in Handling:	Keep containers tightly capped
Precautions to be taken in Storage:	Keep at moderate temperature. below 110 f / 44 c,
In Case of Accidental Spillage:	Flush spill area with plenty of water

WASTE DISPOSAL PROCEDURE

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids In accordance with local, state, and Federal regulations.

ADDITIONAL INFORMATION

DOT (U.S. Department of Transportation) Class 55 non-hazmat
SHIPPING NAME: Duraseal ZERO™
MSDS NON-REGULATED

Packaging Size: 5 Gallon Pails, 55 Gallon Drum, 264gallon (1,000 Liter) Totes

The information contained herein relates only to the specific material identified. Enviroseal believes that such information is accurate and reliable as of the date on this **Material Safety Data Sheet**. But representation, guarantee or warranty, express or implied is made as to the accuracy, reliability or completeness of the information, Enviroseal urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application