



**DURASEAL ZERO™ CONCRETE & MASONRY SEALER
MATERIAL SAFETY DATA SHEET (MSDS)**

MANUFACTURERS INFORMATION

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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
Harmonized Code, Schedule B No. 3906900000

SECTION II - HAZARDOUS INGREDIENTS

Principal Hazardous Components	%	TLV (UNITS)	PRODUCT CAS No.
Proprietary Co-Polymer:15-29 Individual Residual		None Established	Non Hazardous
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^o 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
 Hazards: Polymer film can burn

SECTION V - PHYSICAL HAZARDS

Stability: Stable
 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 Established
 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 material, 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 LD50 - 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 PROCEDURES

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 Rinse product out of standard work clothes
 Clothing or Equipment: with water, alternatively use rubber apron or plastic suit.

SECTION IX- SPECIAL PRECAUTIONS - SPILL/LEAK PROCEDURES

Precautions to be taken in Handling: Keep containers tightly capped
 Precautions to be taken in Storage: Keep at moderate temperature below 110F/44C
 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 no 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.