



<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

**SAFETY DATA SHEET**  
Prepared by Duro Dyne August 8, 2017

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Trade Name:** DURO DYNE DuroSeal Fiber Reinforced Duct Sealer  
**Product Identifier:** EDS-RF1, EDS-RFC, WEDS-RF1, WEDS-RFC  
**Item #:** 5230, 5232, 5234, 5235  
**Supplier Details:** DURO DYNE CORPORATION  
81 Spence Street  
Bay Shore, NY 11706

**Information**  
**Phone No:** 800-899-3876  
**Emergency Phone No:** 800-424-9300 (CHEMTREC)

**HAZARD IDENTIFICATIONS**

**Classification**  
This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Slate Gray (5230, 5232) or White (5234, 5235)  
**Physical State** Solid Water Based Sealant                      **Odor** Mild

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No</b>	<b>Weight-%</b>
Calcium Carbonate	1317-65-3	<50
Aqueous Polymer Emulsion Blend	Proprietary	<35
Benzoate Ester	Proprietary	<5
Titanium dioxide	Proprietary	<1
Non-hazardous Ingredients*	Proprietary	<20
Fiber Reinforced Additive	Proprietary	<1

\*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). (Calcium Carbonate, Titanium Dioxide) Inhalation of particulates unlikely due to product's physical state.

**3. FIRST AID MEASURES**

**General Advice**                      Provide this SDS to medical personnel for treatment

<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice.
<b>Skin Contact</b>	Wash with soap & water. Get medical attention if symptoms persist. Remove & wash contaminated clothing.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention.
<b>Ingestion</b>	Do not induce vomiting unless directed by medical personnel. If vomiting occurs, lean patient forward to maintain an open air way & prevent aspiration. Get immediate medical attention.

### **Most important symptoms and effects**

<b>Symptoms</b>	Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.
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### **Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Provide general supportive measures and treat symptomatically Medical Conditions Aggravated By Exposure: Dermatitis or other pre-existing skin conditions may be aggravated by overexposure to this product.
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## **5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Carbon Dioxide (CO<sub>2</sub>). Dry chemical Water spray (fog). Foam: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising From the Chemical** Product is non-combustible.

**Hazardous Combustion Products** Carbon, titanium & iron oxides, depending upon formulation.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

## **6. ACCIDENTAL RELEASE MEASURES**

## **Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

**Other Information** Small Spills: 1 drum or less – Level D Equipment (gloves, chemical resistant apron, boots & eye protection). Large Spills: Rubber gloves, rubber boots, face shield & Tyvek suit as a minimum. Minimum level of PPE for releases in which the oxygen level is < 19.5% or is unknown, should be Level B: triple gloves (rubber gloves & nitrile gloves over latex gloves), chemical resistant suit, fire-retardant clothing & boots, hard hat & self-contained breathing apparatus.

**For Emergency Responders** Restrict access to spill area.

**Environmental Precautions** Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater. Do not allow discharge containing this material to enter streams, ponds, estuaries, oceans or other waters unless in accordance w/ requirements of National Pollutant Discharge Elimination System (NPDES) permit & permitting authority has been notified in writing prior to discharge. Do not allow discharge containing this material to enter sewer systems w/o previously notifying local sewage treatment plant authority. For information, contact State Water Board or EPA Regional Office Other: U.S. regulations may require reporting of spills of this material reaching surface waters if sheen is formed.

## **Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Use absorbent material to contain spill.

**Methods for Clean-Up** Sweep up absorbed material and shovel into suitable containers for disposal. Wash area with soap and water. For waste disposal, see section 13 of the SDS.

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## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**Advice on Safe Handling** Avoid breathing vapors. Use only with adequate ventilation. Open windows & doors to ensure fresh air cross-ventilation during application and curing. Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes or clothing. While handling product keep out of reach of children and pets. Do not eat or drink while handling this material. See section 6 of this SDS for clean up instructions.

### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep tightly closed in a dry and cool place. Close container after each use. Store Containers away from excessive heat & freezing. Do not store @ temperatures above 120 ° F. Store away from incompatible materials. Protect from direct sunlight. To maximize shelf life, store @ temperatures below 26C (80F).

**Incompatible Materials** Strong acids.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines** Exposure guidelines / protective equipment are for routine handling and accidental spills.

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Calcium Carbonate 1317-65-3	-	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

### Appropriate Engineering Controls

**Engineering Controls** Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations & standards.

**Skin and Body Protection** Skin: Wear chemical impervious gloves (eg: Nitrile or Neoprene). Use triple gloves for spill response. If necessary, refer to appropriate regulations & standards.  
Body: Use protection appropriate for task (eg: lab coat, coveralls, Tyvek suit). If necessary, refer to OSHA Technical Manual (Sec. VII: Personal Protective Equipment) or appropriate Standards of Canada. Use foot protection, as described in appropriate regulations & standards

**Respiratory Protection** If mists or sprays are created, use appropriate respiratory protection. Oxygen Levels below 19.5% considered IDLH by OSHA. In such instances, use full-face piece pressure demands SCBA or a full face piece, supplied air respirator w/auxiliary self-contained air supply.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State** Solid Water Based Sealant  
**Appearance** Slate Gray (5230, 5232) or White (5234, 5235) paste

<b>Odor</b>	Mild	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Slate Gray (5230, 5232) or White (5234, 5235)		

**Property** **Note: The information below is not intended for use in preparing Product specifications**

<b>pH</b>	8.0-9.0
<b>Melting Point/Freezing Point</b>	< 0° C / < 32° F
<b>Boiling Point/Boiling Range</b>	~ 98.88-104.44° C / ~210-220° F
<b>Flash Point</b>	> 93.33° C / > 200° F
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper Flammability Limits</b>	Unknown
<b>Lower Flammability Limit</b>	Unknown
<b>Vapor Pressure</b>	Not established
<b>Vapor Density</b>	Less than air
<b>Specific Gravity</b>	~1.50-2.00 @ 25°C (77 °F)
<b>Water Solubility</b>	Soluble in water
<b>Solubility in other solvents</b>	Not determined
<b>Partition Coefficient</b>	Not determined
<b>Autoignition Temperature</b>	Unknown
<b>Decomposition Temperature</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined
<b>Additional Information</b>	%/wt Volatile: < 20%
<b>VOC Content</b>	<1.0%
<b>VOC Content</b>	<10 g/L

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## **10. STABILITY AND REACTIVITY**

<b><u>Reactivity</u></b>	Cures upon contact with air.
<b><u>Chemical Stability</u></b>	Stable under recommended storage conditions.
<b><u>Possibility of Hazardous Reactions</u></b>	None under normal processing
<b><u>Hazardous Polymerization</u></b>	Hazardous polymerization does not occur.
<b><u>Conditions to Avoid</u></b>	Incompatible Materials Excessive heat or cold
<b><u>Incompatible Materials</u></b>	Strong acids
<b><u>Hazardous Decomposition Products</u></b>	Thermal decomposition can generate irritating dust, fumes and toxic gases (carbon, titanium, and iron oxides, depending upon formulation).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

#### **Product Information**

<b>Eye Contact</b>	Eye contact may result in tearing, redness & pain.
<b>Skin Contact</b>	Prolonged and frequent contact may cause redness and irritation. Repeated skin contact may cause dermatitis.
<b>Inhalation</b>	Overexposure to vapors during application & curing may mildly irritate respiratory tract & result in coughing & sneezing.
<b>Ingestion</b>	May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

#### **Component Information**

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>LD50 Dermal LD50</b>	<b>Inhalation LC50</b>
Titanium dioxide	> 10000 mg/kg ( Rat )	-	-

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** Not known to be human skin or respiratory sensitizers.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. Titanium dioxide is a possible carcinogen when it appears as a respirable dust. Trace residual Formaldehyde present in base emulsion viewed as possible cancer hazard. Silica, crystalline present in small amount in Calcium Carbonate filler: Known carcinogen. Crystalline Silica is considered to be a human carcinogen when in respirable form (dust /powder).

<b>Chemical Name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Titanium dioxide		Group 2B		X

#### **IARC (International Agency for Research on Cancer)**

Group 2B - Possibly Carcinogenic to Humans

#### **OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X – Present

**Target organ effects** Acute: Eyes & Skin. Chronic: Skin.

Numerical measures of toxicity Not determined

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity

PRACTICES SHOULD BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

Not tested for aquatic or animal toxicity. Release of product to terrestrial, atmospheric & aquatic environments should be avoided.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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Persistence/Degradability Not tested for persistence & biodegradability

Bioaccumulation Not tested for bio-accumulation potential

Mobility Not tested for mobility in soil

Chemical Name	Partition Coefficient
Ammonium Hydroxide 7664-41-7	-1.14

Other Adverse Effects Environmental Exposure Controls: Should be maintained so as to prevent release to the environment (atmospheric release, release to waterways & spills)

Ozone Not expected to produce any ozone depletion

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## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number** Not Applicable

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## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

**TSCA** Listed

**DSL** Listed

**NDSL** Listed

**Legend:**

**TSCA -** United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCs** Japan Existing and New Chemical Substances

**IECSC** China Inventory of Existing Chemical Substances

**KECL** Korean Existing and Evaluated Chemical Substances

**PICCS** Philippines Inventory of Chemicals and Chemical Substances

### US Federal Regulations

#### CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ Reportable Quantity (RQ)
N/A	N/A	N/A	N/A

### SARA 311/312 Hazard Categories

**Acute Health Hazard** Yes

**Chronic Health Hazard** No

**Fire Hazard** No

**Sudden Release of Pressure Hazard** No

**Reactive Hazard** No

#### SARA 313

Chemical Name	CAS No	Weight-%	SARA 313- Threshold Values %
N/A	N/A	N/A	N/A

### CWA (Clean Water Act)



Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
N/A	N/A			X

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Titanium dioxide	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Carbonate 1317-65-3	X	X	X
Titanium dioxide	X	X	X

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	1	1	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	1	1	0	Not determined

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.