



T N E M E C

ENVIROFILL® SERIES 130

PRODUCT DATA SHEET

PRODUCT PROFILE

GENERIC DESCRIPTION

Waterborne Cementitious Acrylic

COMMON USAGE

Exceptional filling capabilities for interior/exterior porous concrete and CMU. Seals and primes surface for application of a variety of high performance water- and solvent-based topcoats in moderately severe exposures.

COLORS

130-6602, Off-White

PERFORMANCE CRITERIA

Extensive test data available. Contact your Tremco representative for specific test results.

COATING SYSTEM

TOPCOATS

Series 6, 66, 169, 169F, N69, N69F, V69, V69F, 84, 104, 113, 114, 151-1051, 156, 157, 158, 161, 180, 201, 270, 275, 280, 287, 1028, 1029

SURFACE PREPARATION

CONCRETE

Allow new concrete to cure for 14 days. Abrasive blast referencing SSPC-SP13/NACE 6, ICRI CSP 2-4. Surface Preparation of Concrete and Tremco's Envirofill Application Guide. Large voids, bugholes and other cavities should be filled with materials recommended by Tremco Company, Inc.

CMU

Allow mortar to cure for 14 days. Level protrusions and mortar spatter.

ALL SURFACES

Must be clean, dry and free of oil, grease and other contaminants. Not recommended for previously-painted surfaces.

TECHNICAL DATA

VOLUME SOLIDS

68.0 ± 2.0% (mixed)

CURING TIME

Temperature	To Touch	To Recoat
75°F (23°C)	1/4 hour	18 hours

Recoat times are dependent on topical and environmental conditions. Curing time varies with surface temperature, air movement, humidity and film thickness.

Unthinned: 0.59 lbs/gallon (71 grams/litre)
Thinned 5%: 0.59 lbs/gallon (71 grams/litre)

Unthinned: 0.42 lbs/gal solids
Thinned 5%: 0.42 lbs/gal solids

1,091 ml sq ft/gal (26.8 m²/L at 25 microns).

THEORETICAL COVERAGE

Three: Part A, Part B and Part C

PACKAGING

Large Kit — 6 gallon pail of liquid Part A, 3 1/2 gallon pail of powder Part B, and Part C, packaged in a separate plastic bottle. Yields 5 gallons (18.9L).

Small Kit — Individual plastic containers for each component; yields 1 gallon (3.79L).

NET WEIGHT PER GALLON

Minimum 35°F (2°C) Maximum 110°F (43°C)

STORAGE TEMPERATURE

(Dry) Continuous 17°F (7°C) Intermittent 200°F (93°C)

TEMPERATURE RESISTANCE

24 months at recommended storage temperature.

FLASH POINT - SEIA

N/A

HEALTH & SAFETY

This product contains chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. **Keep out of the reach of children.**

APPLICATION

ENVIROFILL® | SERIES 130

APPLICATION EQUIPMENT

Note: For the smoothest achievable finish, follow all methods of application by using a rubber squeegee or foam/cork float to remove excess material.

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JCA	D .086"	64	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	40-50 psi (2.8-3.4 bar)	20-30 psi (1.4-2.1 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

Pump	Tip	Atomizing Pressure	Mat'l Hose ID
3/0 to 1 or larger W/WA-410 Min. 2.0 CFM rating	0.031" to 0.035" (785-890 microns) Reversible tip	2400-3000 psi (165-207 bar) minimum	3/8" (9.5 mm)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions. Remove all filters. If pump pulsation (surging) occurs, equip pump with Grace Model 214-623 Surge Tank without filter or equivalent. Backroll material immediately after spray application to force material into voids and hairline cracks.

Roller: Use a synthetic woven nap cover: 1 inch to 1-1/2 inches (2.5 cm to 3.8 cm) is recommended for most porous block. Use shorter nap for smooth, dense surfaces.

Brush: Apply with a high quality nylon or synthetic bristle brush, work material into voids.

SURFACE TEMPERATURE

Minimum 50°F (10°C) Maximum 120°F (49°C)
The surface should be dry and at least 5°F (3°C) above the dew point.

Note: If environmental conditions dictate, such as high air or substrate temperatures or dry winds, the surface can be pre-wet or dampened with clean water prior to application. Do not overly saturate.

CLEANUP

Flush and clean all equipment immediately after use with warm water.



T.N.E.M.E.C.

ENVIRO-CRETE® 156 & 157

PRODUCT DATA SHEET

PRODUCT PROFILE

GENERIC DESCRIPTION

Modified Waterborne Acrylate

COMMON USAGE

Flexible, breathable coating primarily for concrete and masonry that can fill and bridge minor hairline cracks. Excellent elastomeric protection against driving rain, alternate freezing-thawing and UV light. Series 156 can also be used as a low cohesive stress overcoat for aged oil or alkyd systems.

COLORS

Refer to Tremec Color Guide. Series 156 is also available in 01AB Air Barrier Beige.

FINISH

Matte — Series 156; Smooth; Series 157; Sand Texture (TX)

SPECIAL QUALIFICATIONS

Series 156 meets air barrier (A/B) requirements of Massachusetts' Energy Code, 780 CMR Chapter 13.

PERFORMANCE CRITERIA

Extensive test data available. Contact your Tremec representative for specific test results.

COATING SYSTEM

PRIMERS

Concrete, Masonry and Wood: Self-priming or Series 151-1051, 287
Plaster and Stucco: Series 151-1051, 287
Spill-Place and Spill-Filled Block: Self-priming or Series 130-6602
Steel: Series 371, 66, N69, N691E, L69, L691E, 90-97, 94-1-G, 135, L140, L140E
Galvanized Steel & Non-Ferrous Metal: Series 66, L69, L691E, N69, N691E, 135
Other: Series 151 on treated or stained wood, drywall, highly absorbent surfaces and recommended sound existing coatings.

SURFACE PREPARATION

STEEL

Refer to primer product data sheets for surface preparation recommendations.

GALVANIZED STEEL & NON-FERROUS METAL

Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tremec representative or Tremec Technical Services.

CRACKS

Fill hairline cracks less than 1/64 inch (4 mm) wide by brushing Series 156 into them prior to applying Series 156 or 157 over the entire area to be coated. Most business cards are about 1/64 inch (4 mm) thick. For cracks wider than 1/64 inch (4 mm) and/or moving cracks, gaps and expansion joints use Series 152 Tremec-Tape. Refer to Series 152 product data sheet for details. **Note:** Use Series 156 to embed Tremec-Tape prior to topcoating with either 156 or 157.

PAINTED SURFACES

Remove chalk and old paint not tightly bonded to the surface. Apply test patch to check adhesion.

ALL SURFACES

Must be clean, dry and free of oil, grease, form release agents and other contaminants. Allow new concrete, plaster, stucco and masonry to cure 14 days. Level protrusions and mortar spatter. Bare cementitious surfaces can be slightly dampened with clean water if product is drying too rapidly during application. Series 151 may improve adhesion on smooth surfaces. Reference SPC-SP13/NAACI: 6.

TECHNICAL DATA

VOLUME SOLIDS

Series 156: 50.9 ± 2.0%; Series 157: 55.5 ± 2.0%; †

RECOMMENDED DFT

Series 156: 4.0 to 8.0 mils (100 to 205 microns) per coat. Series 157: 6.0 to 9.0 mils (150 to 230 microns) per coat.

CURING TIME

Temperature	To Touch	To Handle	To Recoat
75°F (24°C)	1/2 hour	1-2 hours	1 1/4 hours
50% Relative Humidity			

Curing time varies with surface temperature, air movement, humidity and film thickness.

VOLATILE ORGANIC COMPOUNDS

Unthinned: - Series 156: 0.41 lbs/gallon (49 grams/liter)
Series 157: 0.38 lbs/gallon (45 grams/liter) †

THEORETICAL COVERAGE

Series 156: 81.6 mil sq ft/gal (19.9 m²/l at 25 microns). Series 157: 89.0 mil sq ft/gal (21.8 m²/l at 25 microns). Actual coverage will vary from about 100 to 200 sq ft (9.3 to 18.6 m²) per gallon dependent upon product, substrate and coating thickness. †

NUMBER OF COMPONENTS

One

ENVIRO-CRETE® | 156 & 157

APPLICATION

COVERAGE RATES

Series 156	Dry Mills (Microns)	Wet Mills (Microns)	Sq Ft/Gal (m ² /Gal)
Suggested	6.0 (150)	12.0 (305)	136 (12.6)
Minimum	4.0 (100)	8.0 (205)	204 (18.9)
Maximum	8.0 (205)	16.0 (405)	102 (9.5)

Series 157	Dry Mills (Microns)	Wet Mills (Microns)	Sq Ft/Gal (m ² /Gal)
Suggested	8.0 (205)	14.5 (370)	111 (10.3)
Minimum	6.0 (150)	11.0 (280)	148 (13.8)
Maximum	9.0 (230)	16.0 (405)	99 (9.2)

Allow for application losses and surface irregularities. Roller or brush application may require multiple coats to obtain recommended film thickness. *Important: Protect against weather, driving rain and alternate freezing and thawing as obtained when coating is applied to form a continuous void-free film.* The coating must be brushed, rolled or sprayed and backrolled onto block (grooves in scored and fluted block must be brushed). Two coats are normally recommended for lightweight or haylike block. Split-face and split-fluted block must be filled. Contact your Ternac representative for specific coating system recommendations. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Film thicknesses are calculated from the sq ft/gal figures. There is no method for accurately measuring the film thicknesses of this coating applied over a rough masonry substrate. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. *

MIXING
THINNING

Spr contents to a uniform consistency.
Not recommended except when priming highly porous surfaces. Thin first coat 30% or 1 1/4 quarts (1.1L) per gallon with potable water.

APPLICATION EQUIPMENT

Series 157 Air Spray	Gun	Fluid Nozzle	Air Cap	Air Hose ID	Mat'l Hose ID	Aeromizing Pressure	Pump*	Fluid Pressure
Graco 2044000	167-330	160-321	3/8" min. (9.5 mm)	1/2" min. (12.7 mm)	40-60 psi (2.8-4.2 bar)	10-1 President Texture Pump	150-300 PSI (10.3-20.7 bar)	
Binks 712	45	1/4" (6.4 mm)	3/8" min. (9.5 mm)	1/2" min. (12.7 mm)	50-70 psi (3.4-4.8 bar)	III-1200	150-300 PSI (10.3-20.7 bar)	

* Series 157 is an abrasive material. Short life of fluid section of pumps should be expected. Pump can be replaced with bottom outlet pressure tank such as Binks No. 89-5562 or larger. Adjust pot pressure to 30-40 psi (2.1-2.8 bar).

Series 156 Airless Spray

Pump	Tip Orifice	Aeromizing Pressure	Mat'l Hose ID	Manifold Filter
Graco 35-1 Sennor or larger	0.019"-0.029" (480-735 microns)	2500-3000 psi (172-207 bar)	3/8" (9.5 mm)	50 mesh (600 microns)

Use appropriate tip/aeromizing pressure for equipment, applicator technique and weather conditions.
Roller: Use a 3/8" to 1-1/2" (9.5 mm to 38 mm) synthetic woven nap roller cover. Use longer nap for rough or porous surfaces. Multiple coats may be required to achieve recommended film thickness, depending on applicator technique and roller nap size.

Brush: Use a good quality nylon or synthetic-bristle brush.
Caution: Do not brush and roll Enviro-Crete TX as you would conventional coatings. Instead, use the brush or roller to lay on the Enviro-Crete TX, then lightly smooth down and dress in one direction only. Multi-directional application will cause poor appearance and overworking will cause improper, non-uniform film thickness.

SURFACE TEMPERATURE
CLEANUP

- Minimum 40°F (4°C) Maximum 100°F (38°C)
The surface should be dry and at least 5°F (3°C) above the dew point.
- Clean equipment immediately after use; brushes and rollers with hot, soapy water; spray equipment as follows:
1. Pump out excess material from equipment and lines.
 2. Pump 10 gallons (40L) of clean water through airless pump or conventional pressure tank and lines.
 3. Release pressure from pump or pressure tank and clean all parts and surfaces.
 4. Reassemble and flush with clean water. Finish with a final flush of ethyl or isopropyl alcohol.



Material Safety Data Sheet

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Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Common name SERIES 156
Product code 0156-W6673
Trade name ENVIRO-CRETE WHITE SOLITUDE
Product Class STYRENATED ACRYLIC
Manufacturer Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372
Emergency telephone 800-535-5053 (INFOTRAC) - TNEMEC REGULATORY DEPT. 816-474-3400

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING!

HARMFUL IF INHALED.
HARMFUL IF SWALLOWED.
MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.

Potential health effects

Principle Routes of Exposure

Eye contact, Inhalation, Skin contact.

Acute effects

Eyes Irritating to eyes.
Skin Irritating to skin.
Inhalation Irritating to respiratory system. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.
Ingestion May be harmful if swallowed.

Chronic effects

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

See Section 11 for additional Toxicological Information.

Aggravated Medical Conditions

Skin disorders. Respiratory disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
CELESTITE		10 - 30
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	5 - 10
ZINC COMPOUNDS	1314-13-2	1 - 5
ALUMINUM SILICATE (TOTAL DUST)	1332-58-7	1 - 5
BARIUM SULFATE (TOTAL DUST)	7727-43-7	1 - 5
GLASS OXIDE	6597-17-3	1 - 5
CARBONIC ACID CALCIUM SALT		1 - 5
ALUMINUM OXIDES	1344-28-1	1 - 5
MINERAL OIL MIST		1 - 5
BARIUM SULFATE (TOTAL DUST)	7727-43-7	0.1 - 1
FERRIC SESQUIOXIDE		0.1 - 1
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	0.1 - 1

4. FIRST AID MEASURES

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes.

Skin contact: Wash off immediately with soap and plenty of water.

Ingestion: If swallowed, do not induce vomiting. Get medical attention immediately.

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed.

5. FIRE-FIGHTING MEASURES

Flammable properties No information available.

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Contact with water may cause violent frothing. Use: Carbon dioxide (CO₂) - Foam - Dry chemical

Hazardous decomposition products Oxides of carbon, hydrocarbons. Oxides of nitrogen. Oxides of sulphur. Hydrogen chloride.

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.

Protective equipment and precautions for firefighters

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from head/sparks/open flames/hot surfaces. May cause heat and pressure build-up in closed containers. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

6. ACCIDENTAL RELEASE MEASURES

Other Information

Not applicable

7. HANDLING AND STORAGE

Handling

Close container after each use. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. If splashes are likely to occur, wear goggles. Wear protective gloves/clothing. Do not burn, or use a cutting torch on, the empty drum. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

Storage

Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	Quebec TWAEV	Ontario TWAEV	Mexico OEL (TWA)
TITANIUM DIOXIDE (TOTAL DUST)	: 10 mg/m ³ TWA	: 10 mg/m ³ TWA (total dust); : 15 mg/m ³ TWA (total dust)	TWA: 10 mg/m ³ TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)	TWA: 10 mg/m ³ TWA (total dust)	: 10 mg/m ³ TWA (as TI); : 20 mg/m ³ STEL (as TI)
ZINC COMPOUNDS	: 2 mg/m ³ TWA (respirable fraction); : 10 mg/m ³ STEL (respirable fraction)	: 5 mg/m ³ TWA (fume); : 10 mg/m ³ TWA (total dust); : 5 mg/m ³ TWA (respirable fraction); : 10 mg/m ³ STEL (fume); : 5 mg/m ³ TWA (fume); : 15 mg/m ³ TWA (total dust); : 5 mg/m ³ TWA (respirable fraction)	TWA: 5 mg/m ³ TWAEV (fume); : 10 mg/m ³ TWAEV (total dust, containing no asbestos and less than 1% crystalline silica) STEL: 10 mg/m ³ STEV (fume)	TWA: 2 mg/m ³ TWA (respirable) STEL: 10 mg/m ³ STEL (respirable)	: 5 mg/m ³ TWA (fume); : 10 mg/m ³ TWA (dust); : 10 mg/m ³ STEL (fume)
ALUMINIUM SILICATE (TOTAL DUST)	: 2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	: 10 mg/m ³ TWA (total dust); : 5 mg/m ³ TWA (respirable fraction); : 15 mg/m ³ TWA (total dust); : 5 mg/m ³ TWA (respirable fraction)	TWA: 5 mg/m ³ TWAEV (respirable dust, containing no asbestos and less than 1% crystalline silica)	TWA: 2 mg/m ³ TWA (containing no Asbestos and <1% Crystalline silica, respirable)	: 10 mg/m ³ TWA; : 20 mg/m ³ STEL
BARIUM SILFATE (TOTAL DUST)	: 10 mg/m ³ TWA; : 0.5 mg/m ³ TWA (as Ba)	: 10 mg/m ³ TWA (total dust); : 5 mg/m ³ TWA (respirable fraction); : 15 mg/m ³ TWA (total dust); : 5 mg/m ³ TWA (respirable fraction)	TWA: 10 ppm TWAEV (total dust, containing no asbestos and less than 1% crystalline silica) 5 ppm TWAEV (respirable dust, containing no asbestos and less than 1% crystalline silica) TWAEV (as Ba)	TWA: 10 mg/m ³ TWA (total dust) TWA: 0.5 mg/m ³ TWA (as Ba)	TWA: 0.5 mg/m ³
GLASS OXIDE	: 1 fiber/cm ³ TWA (respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X		TWA: 10 mg/m ³ TWAEV (total dust, respirable, containing no asbestos and less than 1% crystalline silica, listed under Fibres -	TWA: 1 fibre/cm ³ TWA (length >5 microns, aspect ratio = 3:1, respirable); : 5 mg/m ³ TWA (inhalable)	

CARBONIC ACID CALCIUM SALT			TWA: 10 mg/m ³ TWA:EV (total dust) TWA: 10 mg/m ³ TWA:EV (Limestone, total dust, containing no asbestos and less than 1% crystalline silica)	TWA: 10 mg/m ³	TWA: 10 mg/m ³ STEL 20 mg/m ³
ALUMINIUM OXIDES	TWA: 1 mg/m ³	: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction); : 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	TWA: 10 mg/m ³ TWA:EV (total dust, containing no asbestos and less than 1% crystalline silica, as Al)	TWA: 10 mg/m ³	: 10 mg/m ³ TWA
BARIUM SULFATE (TOTAL DUST)	: 10 mg/m ³ TWA : 0.5 mg/m ³ TWA (as Ba)	: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction); : 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	TWA: 10 ppm TWA:EV (total dust, containing no asbestos and less than 1% crystalline silica); 5 ppm TWA:EV (respirable dust, containing no asbestos and less than 1% crystalline silica) TWA: 0.5 mg/m ³ TWA:EV (as Ba)	TWA: 10 mg/m ³ TWA (total dust) TWA: 0.5 mg/m ³ TWA (as Ba)	TWA: 0.5 mg/m ³
FERRIC SESQUIOXIDE	: 5 mg/m ³ TWA (respirable fraction)	: 10 mg/m ³ TWA (fume)	TWA: 5 mg/m ³ TWA:EV (dust and fume, as Fe)	TWA: 5 mg/m ³ TWA (respirable)	: 5 mg/m ³ TWA : 10 mg/m ³ STEL (as Fe)
CRYSTALLINE SILICA (QUARTZ)	: 0.025 mg/m ³ TWA (respirable fraction)	: 0.1 mg/m ³ TWA (respirable dust)	TWA: 0.1 mg/m ³ TWA:EV (respirable dust)	TWA: 0.10 mg/m ³ TWA (designated substance regulation, respirable)	: 0.1 mg/m ³ TWA (respirable fraction)

Engineering measures

Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment**Skin protection**

Lightweight protective clothing. Apron. Impervious gloves

Eye/face protection

Safety glasses with side-shields

Respiratory protection

Use only with adequate ventilation. Do not breathe dust, vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.
Avoid breathing dust created by cutting, sanding, or grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES**Flash point**

Not applicable

Boiling range

100 - 100°C / 212.0 - 212.0°F

Upper explosion limit

No information available

Lower explosion limit

No information available

Evaporation rate

No information available

Vapor pressure

No information available

10. STABILITY AND REACTIVITY

Chemical stability Stable. **Conditions to avoid** Heat, flames and sparks.

Incompatible products Strong oxidizing agents. Bases. **Possibility of hazardous reactions** None under normal processing
 Acids. Alkalines. Amines. Reducing agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
WATER	90 mL/kg (Rat)		
TITANIUM DIOXIDE (TOTAL DUST)	10000 mg/kg (Rat)		
ZINC COMPOUNDS	5000 mg/kg (Rat)		
CARBONIC ACID CALCIUM SALT	6450 mg/kg (Rat)		
ALUMINIUM OXIDES	5000 mg/kg (Rat)		
FERRIC SESQUIOXIDE	10000 mg/kg (Rat)		
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg (Rat)		

Irritation No information available
Corrosivity No information available
Sensitization No information available

Chronic toxicity

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	ACGIH	IARC	NTP	OSHA	Mexico
TITANIUM DIOXIDE (TOTAL DUST)		Group 2B		X	
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	

Mutagenicity No information available
Reproductive effects No information available
Developmental effects No information available
Teratogenicity No information available
Target Organ Effects Eyes, Lungs, Respiratory system, Skin.
Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
 Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Contaminated packaging
 Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT
 Ground Transportation Only. Call TNEMEC Traffic Department - 816-474-3400 for other modes of Transportation.

Proper shipping name
 PAINT, WATER BASE FREEZABLE

15. REGULATORY INFORMATION

International Inventories

- TSCA
 Complies
- DSL/NDL
 Complies
- EINECS/ELINCS
 Does not Comply
- CHINA
 Complies
- ENCS
 Does not Comply
- KECL
 Does not Comply
- PICCS
 Does not Comply
- AICS
 Complies

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
 United States of America Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
ZINC COMPOUNDS	1314-13-2	1-5	1.0
BARIUM SULFATE (TOTAL DUST)	7727-43-7	1-5	1.0
ALUMINIUM OXIDES	1344-28-1	1-5	1.0 % de minimis concentration (fibrous forms)
BARIUM SULFATE (TOTAL DUST)	7727-43-7	0.1-1	1.0

SARA 311/312 Hazardous Categorization

- Chronic Health Hazard no
- Acute Health Hazard yes
- Fire Hazard yes
- Sudden Release of Pressure Hazard no
- Reactive Hazard no

California Prop. 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
TITANIUM DIOXIDE (TOTAL DUST)	X	X	X		X
ZINC COMPOUNDS	X	X	X		X
ALUMINUM SILICATE (TOTAL DUST)	X	X	X		X
BARIUM SULFATE (TOTAL DUST)	X	X	X		X
CARBONIC ACID CALCIUM SALT	X	X	X		X
ALUMINUM OXIDES	X	X	X		X
BARIUM SULFATE (TOTAL DUST)	X	X	X		X
FERRIC SESQUIOXIDE	X	X	X		X
CRYSTALLINE SILICA (QUARTZ)	X	X	X		X

Other International regulations

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

WHMIS Classification
D2B Toxic materials



Component	NPRI
ALUMINIUM OXIDES	Part 1, Group 1 Substance (fibrous form)

Legend
NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Disclaimer

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tremec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of MSDS