

Safety Data Sheet

Issue Date: 06-Nov-2017 Revision Date: 06-Nov-2017 Version 1

1. IDENTIFICATION

Product Identifier

Product Name F-Seal Gray

Other means of identification

SDS # RD-0178R

Recommended use of the chemical and restrictions on use

Recommended Use Seal HVAC Duct Systems.

Details of the supplier of the safety data sheet

Supplier Address

Red Devil, Inc. 4175 Webb Street Pryor, Oklahoma 74361 www.reddevil.com

Emergency Telephone Number

Company Phone Number

918-825-5744 Fax: 918-825-5761

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Gray liquid Physical state Liquid

Classification

Skin sensitization	Category 1
Carcinogenicity	Category 2

Signal Word Warning

Hazard statements

May cause an allergic skin reaction Suspected of causing cancer





Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Wear protective gloves

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Please also refer to subsequent sections of this SDS for additional information regarding the components of this product.

Chemical Name	CAS No.	Weight-%
Calcium Carbonate	1317-65-3	40-50
Ethyl acrylate	140-88-5	5-10
Titanium dioxide	13463-67-7	0.1-0.5
Quartz	14808-60-7	0.1-0.5
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	0.1-0.5

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If

skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing

before reuse.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center

if individual's condition declines or if symptoms persist.

Ingestion Rinse mouth. Do not induce vomiting without medical advice. Get medical advice/attention.

Most important symptoms and effects

Symptoms Exposed individuals may experience eye tearing, redness and discomfort. Overexposure to

vapors during application and curing may mildly irritate respiratory tract and result in

coughing and sneezing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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 not flammable.

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.

For Emergency Responders Restrict access to spill area.

Environmental precautions

Environmental precautions Minimize use of water to prevent environmental contamination. Prevent spill or rinse from

contaminating storm drains, sewers, soil or groundwater. See Section 12 for additional

Ecological Information.

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.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Keep out of the reach of children. Use with

adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked

up.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
		dust (vacated) TWA: 5 mg/m³ respirable fraction	
Ethyl acrylate 140-88-5	STEL: 15 ppm TWA: 5 ppm	TWA: 25 ppm TWA: 100 mg/m³ (vacated) TWA: 5 ppm (vacated) TWA: 20 mg/m³ (vacated) STEL: 25 ppm (vacated) STEL: 100 mg/m³ (vacated) S* S*	IDLH: 300 ppm
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m ³
Quartz 14808-60-7	TWA: 0.025 mg/m³ respirable particulate matter	TWA: 50 μg/m³ TWA: 50 μg/m³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m³ respirable dust: (250)/(%SiO2 + 5) mppcf TWA respirable fraction: (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Ventilation must

be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Ensure that eyewash stations and safety showers are close to the

workstation location.

Individual protection measures, such as personal protective equipment

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

regulations and standards. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

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). 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-facepiece pressure demand SCBA or a full facepiece, supplied air respirator w/ auxillary self-contained air supply.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateLiquidAppearanceGray liquidOdorNot determinedColorGrayOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

PH Not determined
Melting Point/Freezing Point Not determined
Boiling Point/Boiling Range
Flash Point Not determined
Evaporation Rate Not determined
Flammability (Solid, Gas) Not determined

Flammability Limits in Air **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined Vapor Density Not determined **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Silica will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Incompatible Materials. Excessive heat or cold.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Eye contact may result in tearing, redness & pain.

Skin Contact May cause an allergic skin reaction. Causes mild skin irritation. Prolonged and frequent

contact may cause redness and irritation. Repeated skin contact may cause dermatitis.

Inhalation Overexposure to vapors during application & curing may mildly irritate respiratory tract &

result in coughing & sneezing.

Ingestion May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl acrylate 140-88-5	= 550 mg/kg (Rat)	= 500 μL/kg (Rabbit) = 1790 mg/kg (Rabbit)	= 1410 ppm (Rat) 4 h = 1414 ppm (Rat) 4 h
1,2 Propanediol 57-55-6	= 20 g/kg(Rat)	= 20800 mg/kg (Rabbit)	-
Titanium dioxide 13463-67-7	> 10000 mg/kg(Rat)	-	-
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	> 15000 mg/kg(Rat)	> 5000 mg/kg (Rabbit)	> 2400 mg/m³(Rat)4 h

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 May cause an allergic skin reaction.

Carcinogenicity Suspected of causing cancer. Silica (quartz) is a possible carcinogen when it appears as a

respirable dust. Titanium dioxide is a possible carcinogen when it appears as a respirable dust. The component below belongs to the petroleum family, which has been shown to contain carcinogenic substances depending on the level of refinement. The carcinogen classification need not apply when the substance contains less than 3% dimethyl sulfoxide

extract, as is the case with this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl acrylate 140-88-5		Group 2B		Х
Titanium dioxide 13463-67-7		Group 2B		X
Quartz 14808-60-7	A2	Group 1	Known	Х
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	A2	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

NTP (National Toxicology Program)

Known - Known Carcinogen

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

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5,469.00 mg/kg **ATEmix (dermal)** 10,869.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethyl acrylate	48: 72 h Desmodesmus subspicatus	10.0 - 22.0: 96 h Leuciscus idus	7.9: 48 h Daphnia magna mg/L
140-88-5	mg/L EC50	mg/L LC50 static 2.31 - 2.7: 96 h	EC50
		Pimephales promelas mg/L LC50	
		flow-through 4.6: 96 h	
		Oncorhynchus mykiss mg/L LC50	
1,2 Propanediol	19000: 96 h Pseudokirchneriella	51400: 96 h Pimephales promelas	1000: 48 h Daphnia magna mg/L
57-55-6	subcapitata mg/L EC50	mg/L LC50 static 41 - 47: 96 h	EC50 Static 10000: 24 h Daphnia
		Oncorhynchus mykiss mL/L LC50	magna mg/L EC50
		static 51600: 96 h Oncorhynchus	
		mykiss mg/L LC50 static 710: 96 h	
		Pimephales promelas mg/L LC50	
Petroleum distillates, solvent		5000: 96 h Oncorhynchus mykiss	1000: 48 h Daphnia magna mg/L
dewaxed heavy paraffinic		mg/L LC50	EC50
64742-65-0			

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethyl acrylate	1.18
140-88-5	

Other Adverse Effects

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

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

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ethyl acrylate				U113
140-88-5				

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

<u>IMDG</u> Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Calcium Carbonate	Х	Х	Х	Present	Х	Present	Х	Х
Ethyl acrylate	Χ	Х	Х	Present	Х	Present	Х	Х
1,2 Propanediol	Х	Х	Х	Present	Х	Present	Х	Х
Titanium dioxide	Х	Х	Х	Present	Х	Present	Х	Х
Quartz	Х	Х	Х	Present	Х	Present	Х	Х
Petroleum distillates, solvent dewaxed heavy paraffinic	Х	Х	Х		Х	Present	Х	Х

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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethyl acrylate	1000 lb		RQ 1000 lb final RQ
140-88-5			RQ 454 kg final RQ

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNo

Reactive Hazard No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Ethyl acrylate - 140-88-5	140-88-5	5-10	0.1

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Ethyl acrylate - 140-88-5	Carcinogen
Titanium dioxide - 13463-67-7	Carcinogen
Quartz - 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Carbonate 1317-65-3	X	X	X
Ethyl acrylate 140-88-5	X	X	X
1,2 Propanediol 57-55-6	X		X
Titanium dioxide 13463-67-7	X	X	X
Quartz 14808-60-7	X	X	X

16. OTHER INFORMATION

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

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Revision Note: New formula

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.

End of Safety Data Sheet