

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

Reviewed on 03/25/2016

### 1 Identification

- **Product Identifier**
- **Trade name: 850CF Part B Polyol**
- **Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information
- **Product Description** Polyurea Crack Filler
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
SIMIRON  
32700 Industrial Drive  
Madison Heights, MI 48071  
Phone: (248) 686-3600  
Fax: (248) 677-9325  
www.simiron.com
- **Emergency telephone number:** 800-535-5053

### 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS08 Health hazard

Carc. 1B            H350 May cause cancer.  
.....  
Eye Irrit. 2B        H320 Causes eye irritation.  
Aquatic Acute 3    H402 Harmful to aquatic life.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
Titanium Dioxide  
Carbon black  
Distillates (petroleum), solvent-refined heavy paraffinic
- **Hazard statements:**  
H320 Causes eye irritation.  
H350 May cause cancer.  
H402 Harmful to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements:**  
P280            Wear protective gloves/protective clothing/eye protection/face protection.  
P273            Avoid release to the environment.  
P264            Wash thoroughly after handling.

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- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Unknown acute toxicity:**

46.5 % of the mixture consists of component(s) of unknown toxicity.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMS-ratings (scale 0 - 4)**



- **Hazard(s) not otherwise classified (HNOC):** None known

### \* 3 Composition/Information on Ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture: consisting of the following components.

- **Dangerous Components:**

CAS: 9082-00-2	Glycerol, propylene oxide, ethylene oxide polymer Eye Irrit. 2B, H320	60-80%
CAS: 13463-67-7	Titanium Dioxide ☠ Carc. 2, H351; ☠ Acute Tox. 4, H332	1-5%
CAS: 1318-02-1	Zeolite (Crystalline Aluminosilicate) ⚠ Eye Irrit. 2A, H319; STOT SE 3, H335	3-5%
CAS: 1333-86-4 RTECS: FF 5150100	Carbon black ☠ Carc. 2, H351; ☠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2-12%
CAS: 64741-88-4	Distillates (petroleum), solvent-refined heavy paraffinic ☠ Carc. 1B, H350	≤ 2.5%
CAS: 1314-13-2 RTECS: ZH 4810000	Zinc Oxide ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤ 2.5%

### 4 First-Aid Measures

- **Description of first aid measures:**

- **General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact:** Wash with soap and water.
- **After eye contact:**  
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

### 5 Fire-Fighting Measures

- **Extinguishing media:**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:**  
Thermal decomposition will produce toxic oxides of carbon.
- **Advice for firefighters:**
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**  
Avoid contact with skin, eyes and clothing  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep protective respiratory device available.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool, dry place.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

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### 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.

- **Control parameters:**

- **Components with occupational exposure limits:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

<b>1333-86-4 Carbon black</b>	
PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction
<b>64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic</b>	
TWA	Short-term value: 1 mg/m <sup>3</sup> Long-term value: 3 mg/m <sup>3</sup>

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

- **Exposure controls:**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

- **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

- **Protection of hands:**



Protective gloves

- **Material of gloves:** Rubber, latex or vinyl.

- **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- **Eye protection:**



Tightly sealed goggles

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### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Liquid
  - Color:** Grey
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **Change in condition**
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** 101 °C (214 °F)
- **Flash point:** 136 °C (277 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 398 °C (748 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** 0.5 Vol %
  - Upper:** 3.1 Vol %
- **Vapor pressure:** Not determined.
- **Density @ 20 °C (68 °F):** 1.29 g/cm<sup>3</sup> (10.765 lbs/gal)
- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with:**
  - Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 0.0 %
  - Solids content:** 17.9 %
- **Other information:** No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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- **Hazardous decomposition products:** No further relevant information available.

**11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**6846-50-0 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**13463-67-7 Titanium Dioxide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

**1318-02-1 Zeolite (Crystalline Aluminosilicate)**

Oral	LD50	>10.000 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rabbit)

**1333-86-4 Carbon black**

Oral	LD50	10000 mg/kg (rat)
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**1314-13-2 Zinc Oxide**

Oral	LD50	> 5000 mg/kg (rat)
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- **Primary irritant effect:**

- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful  
Irritant  
Carcinogenic

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

(a) Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials, such as in cosmetics or in paints."

(b) OSHA does not regulate Titanium Dioxide as a carcinogen. However, under 29 CFR 1910.1200 the SDS must convey the fact that Titanium Dioxide is a potential carcinogen to rats.

Substance listed by IARC. In 1995 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of carbon black." Based on rat inhalation studies, IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" resulting in their classifying carbon black as "possibly carcinogenic to humans (Group 2B).

13463-67-7	Titanium Dioxide	2B
1318-02-1	Zeolite (Crystalline Aluminosilicate)	3
1333-86-4	Carbon black	2B

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

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**Trade name: 850CF Part B Polyol****· OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**12 Ecological Information****· Toxicity:****· Aquatic toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

**6846-50-0 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate**

EC50 &gt;7.49 mg/l (Green algae)

**13463-67-7 Titanium Dioxide**

EC50 &gt;1000 mg/l (Water flea)

**· Persistence and degradability:** No further relevant information available.**· Behavior in environmental systems:****· Bioaccumulative potential:** No further relevant information available.**· Mobility in soil:** No further relevant information available.**· Ecotoxicological effects:****· Remark:** Harmful to fish**· Additional ecological information:****· General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

Harmful to aquatic organisms

**· Results of PBT and vPvB assessment:****· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects:** No further relevant information available.**13 Disposal Considerations****· Waste treatment methods:****· Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

**· Uncleaned packagings****· Recommendation:** Disposal must be made according to official regulations.**14 Transport Information****· UN-Number:****· DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

**· UN proper shipping name:****· DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

**· Transport hazard class(es):****· DOT, ADR, ADN, IMDG, IATA****· Class:**

Non-Regulated Material

**· Packing group:****· DOT, ADR, IMDG, IATA**

Non-Regulated Material

**· Environmental hazards:**

Not applicable.

**· Special precautions for user:**

Not applicable.

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- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

1314-13-2 Zinc Oxide

· **TSCA (Toxic Substances Control Act):**

9082-00-2 Glycerol, propylene oxide, ethylene oxide polymer

6846-50-0 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate

13463-67-7 Titanium Dioxide

1333-86-4 Carbon black

64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic

64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic

64742-75-2 Naphthenic oils (petroleum), complex dewaxed heavy

1314-13-2 Zinc Oxide

· **California Proposition 65:**· **Chemicals known to cause cancer:**

13463-67-7 Titanium Dioxide

1333-86-4 Carbon black

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **New Jersey Right-to-Know List:**

13463-67-7 Titanium Dioxide

1333-86-4 Carbon black

1314-13-2 Zinc Oxide

· **New Jersey Special Hazardous Substance List:**

1333-86-4 Carbon black

CA

· **Pennsylvania Right-to-Know List:**

None of the ingredients are listed.

· **Pennsylvania Special Hazardous Substance List:**

1314-13-2 Zinc Oxide

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· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

1314-13-2	Zinc Oxide	D, I, II
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· **TLV (Threshold Limit Value established by ACGIH):**

13463-67-7	Titanium Dioxide	A4
1333-86-4	Carbon black	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

13463-67-7	Titanium Dioxide	
1333-86-4	Carbon black	

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Titanium Dioxide  
Carbon black  
Distillates (petroleum), solvent-refined heavy paraffinic

· **Hazard statements:**

H320 Causes eye irritation.  
H350 May cause cancer.  
H402 Harmful to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P273 Avoid release to the environment.  
P264 Wash thoroughly after handling.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of

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this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 03/25/2016 / 2

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEL: Biological Exposure Limit

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

Carc. 1B: Carcinogenicity, Hazard Category 1B

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - AcuteHazard, Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **\* Data compared to the previous version altered.**

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