



10150 Greenville Hwy  
Wellford, SC 29385  
1.800.677.3500  
www.StarChemGlobal.com

## MATERIAL SAFETY DATA SHEET

**StarChem LLC**  
Product Safety & Regulatory Affairs  
10150 Greenville Highway  
Wellford, SC 29385  
USA

**TRANSPORTATION EMERGENCY**  
CALL CHEMTREC: (800) 424-9300

**NON-TRANSPORTATION**  
StarChem LLC Emergency : (864) 949-2162  
StarChem LLC Information : (866) 377-5269

### 1. Product and Company Identification

**Product Name:** STARPEL FC 2583  
**Material Number:**  
**Chemical Family:** Fluoroalkyl Acrylate Copolymer Emulsion

### 2. Hazards Identification

#### Emergency Overview

**Color:** Off-White **Form:** Liquid **Odor:** mild.  
Product poses little or no hazard if spilled. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

#### Potential Health Effects

**Primary Routes of Entry:** Skin Contact, Eye Contact, Ingestion, Inhalation

**Medical Conditions Aggravated by Exposure:** None known.

#### HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

##### General Effects of Exposure

##### Acute Effects of Exposure

**For Product: STARPEL FC 2583**

Not expected to cause any adverse acute health effects.

##### Chronic Effects of Exposure

**For Product: STARPEL FC 2583**

Not expected to cause any adverse chronic health effects.

**Carcinogenicity:**

No Carcinogenic substances as defined by IARC, NTP and/or OSHA.

**3. Composition/Information on Ingredients**

**Hazardous Components**

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Fluoropolymer	
1 - 5%	Emulsifier	

**4. First Aid Measures**

**Eye Contact**

In case of contact, flush eyes with plenty of lukewarm water.

**Skin Contact**

In case of skin contact, wash affected areas with soap and water.

**Inhalation**

If inhaled, remove to fresh air.

**Ingestion**

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

**5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** All extinguishing media are suitable.

**Special Fire Fighting Procedures**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

**6. Accidental release measures**

**Spill and Leak Procedures**

Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

**7. Handling and Storage**

**Storage Period**

Not Established

**Handling/Storage Precautions**

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing. Stir before using.

## 8. Exposure Controls / Personal Protection

Country specific exposure limits have not been established or are not applicable

### Industrial Hygiene/Ventilation Measures

Under normal conditions of use, special ventilation is not required.

### Respiratory Protection

None required under normal conditions of use.

### Eye Protection

safety glasses with side-shields.

### Skin and body protection

No special skin protection requirements during normal handling and use.

### Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

## 9. Physical and chemical properties

<b>Form:</b>	Liquid
<b>Color:</b>	Off-White
<b>Odor:</b>	mild
<b>pH:</b>	3.5
<b>Freezing Point:</b>	Not Established
<b>Boiling Point/Range:</b>	100 °C (212 °F)
<b>Flash Point:</b>	Not Applicable
<b>Evaporation Rate:</b>	< 1
<b>Vapor Pressure:</b>	Not Established
<b>Specific Gravity:</b>	1.02
<b>Solubility in Water:</b>	Soluble
<b>VOC Content:</b>	1.90 % Tested by EPA Method 24

## 10. Stability and Reactivity

### Hazardous Reactions

Hazardous polymerization does not occur.

### Stability

Stable

### Materials to avoid

Oxidizing agents, Reducing agents

### Hazardous decomposition products

By Fire: Carbon oxides, other potentially toxic fumes

## 11. Toxicological Information

### Toxicity Data for Tripropylene Glycol

#### **Acute Oral Toxicity**

LD50: 3,000 - 12,000 mg/kg (Rat)

#### **Acute dermal toxicity**

LD50: > 5,000 mg/kg (rabbit)

#### **Skin Irritation**

rabbit, OECD Guideline for Testing of Chemicals, No. 404, No skin irritation  
Human, Patch Test, Non-irritating

#### **Eye Irritation**

rabbit, OECD Guideline for Testing of Chemicals, No. 405, Non-irritating

#### **Repeated Dose Toxicity**

30 Days, oral: NOAEL: 3%, (Rat, )

2 years, oral: NOAEL: 4%, (Rat, )

#### **Mutagenicity**

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

## 12. Ecological Information

### Ecological Data for Tripropylene Glycol

#### **Biodegradation**

aerobic, 84 %, Exposure time: 28 Days

#### **Biological Oxygen Demand (BOD)**

20 Days, 1,326 mg/g, 1.326 parts/part

#### **Theoretical Biological Oxygen Demand (ThBOD)**

approximately 2 parts/part

#### **Bioaccumulation**

approximately < 1 BCF

#### **Acute and Prolonged Toxicity to Fish**

LC0: > 10,000 mg/l (Zebra fish (Brachydanio rerio), 96 hrs)

#### **Acute Toxicity to Aquatic Invertebrates**

EC50: > 10,000 mg/l (Water flea (Daphnia magna), 48 hrs)

#### **Toxicity to Aquatic Plants**

EC10: > 5,000 mg/l, End Point: growth (Green algae (Scenedesmus subspicatus), 72 hrs)

#### **Toxicity to Microorganisms**

EC50: > 50,000 mg/l, (Activated sludge microorganisms, 24 hrs)

### 13. Disposal considerations

#### **Waste Disposal Method**

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

#### **Empty Container Precautions**

Recondition or dispose of empty container in accordance with governmental regulations.

### 14. Transportation information

#### **Land transport (DOT)**

**Non-Regulated**

#### **Sea transport (IMDG)**

**Non-Regulated**

#### **Air transport (ICAO/IATA)**

**Non-Regulated**

### 15. Regulatory Information

#### **United States Federal Regulations**

**OSHA Hazcom Standard Rating:** Hazardous

**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

**US. EPA CERCLA Hazardous Substances (40 CFR 302):**

#### **Components**

None

**SARA Section 311/312 Hazard Categories:**

Non-hazardous under Section 311/312

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III  
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

#### **Components**

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III  
Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:**

#### **Components**

None

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes  
and Appendix VIII Hazardous Constituents (40 CFR 261):**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time

of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

### **State Right-To-Know Information**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

### **Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

<b><u>Weight %</u></b>	<b><u>Components</u></b>	<b><u>CAS-No.</u></b>
>=1%	Water	7732-18-5
1 - 5%	Fluoropolymer	
1 - 5%	Emulsifier	
>=1%	Tripropylene Glycol	24800-44-0

### **California Prop. 65:**

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

## **16. Other Information**

### **NFPA 704M Rating**

<b>Health</b>	0
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

### **HMIS Rating**

<b>Health</b>	0
<b>Flammability</b>	1
<b>Physical Hazard</b>	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

\* = Chronic Health Hazard

StarChem LLC 's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by StarChem LLC as a customer service.

Contact Person: Product Safety Department  
Tele: (866) 377-5269  
MSDS Number: R305684  
Version Date: 12/20/2010  
Report Version: 1.0

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of StarChem LLC . The information in this MSDS relates only to the specific material designated herein. StarChem LLC assumes no legal responsibility for use of or reliance upon the information in this MSDS.