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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: StarRelease FC 2566
Material Number:
Chemical Family: Fluorocarbon Polymer Dispersion

2. Hazards Identification

Emergency Overview

CAUTION! Color: Off-White **Form:** Liquid Emulsion **Odor:** Slight
May cause eye, skin, and respiratory tract irritation. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Vapor extremely irritating. May be harmful if swallowed.

Potential Health Effects

Primary Routes of Entry: Skin Contact, Eye Contact, Ingestion, Inhalation
Medical Conditions Aggravated by Exposure: Skin disorders, Respiratory disorders, Eye disorders

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation

Acute Inhalation

For Product: StarRelease FC 2566

May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Skin

Acute Skin

For Product: StarRelease FC 2566

May cause irritation with symptoms of reddening and itching.

Eye

Acute Eye

For Product: StarRelease FC 2566

May cause slight irritation.

Ingestion

Acute Ingestion

For Product: StarRelease FC 2566

May be harmful if swallowed.

Carcinogenicity:

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

3. Composition/Information on Ingredients

Hazardous Components

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

4. First Aid Measures

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops. Wash contaminated clothing before re-use.

Inhalation

If inhaled, remove to fresh air. Get medical attention if irritation develops.

Ingestion

If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Obtain 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.

Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

6. Accidental release measures

Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Spilled material may make surfaces slippery.

7. Handling and Storage

Storage Temperature:

minimum: -5 °C (23 °F)

maximum: 40 °C (104 °F)

Storage Period

6 Months

Handling/Storage Precautions

Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing. Stir before using. Wear respiratory protection if material is heated, sprayed, or used in a confined space.

Further Info on Storage Conditions

Avoid extreme heat. Do not expose to direct sunlight.

8. Exposure Controls / Personal Protection

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

Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines. Ventilated curing oven.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment., If this material is heated above 200 C, hydrogen fluoride and other toxic fluorinated compounds may be produced. Therefore at temperatures near decomposition at a minimum, an air-purifying respirator with HF cartridges is required. When respirators are in use, an OSHA compliant respirator program is required (29 CFR 1910.134)., NIOSH approved, air-purifying organic vapor respirator.

Hand Protection

Permeation resistant gloves.

Eye Protection

Chemical safety goggles or safety glasses with side-shields.

Skin and body protection

Wear cloth work clothing including long pants and long-sleeved shirts.

Additional Protective Measures

Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products. Employee education and training in the safe use

and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

9. Physical and chemical properties

Form:	Liquid Emulsion
Color:	Off-White
Odor:	Slight
pH:	approximately 3.0 – 7.0
Boiling Point/Range:	approximately 100 °C (212 °F)
Flash Point:	Not Established
Vapor Pressure:	Not Established
Specific Gravity:	approximately 1.05 – 1.10 @ 25 °C (77 °F)
Solubility in Water:	Miscible

10. Stability and Reactivity

Hazardous Reactions

Hazardous polymerization should not occur.

Conditions to avoid

Excessive heat, sparks, open flame

Stability

Stable

Materials to avoid

Oxidizing agents, Reducing agents, Sodium compounds, Magnesium, Fluorine, Aluminum

Hazardous decomposition products

By very high heat: Carbon oxides, other potentially toxic fumes, fluorinated hydrocarbons, hydrogen fluoride

11. Toxicological Information

Toxicity Data for StarRelease FC 2566

Acute Oral Toxicity

May be harmful if swallowed.

Skin Irritation

May cause skin irritation and sensitization.

Eye Irritation

May cause eye or skin irritation with susceptible persons.

Inhalation

May cause respiratory irritation.

12. Ecological Information

Ecological Data for StarRelease FC 2566

Additional Ecotoxicological Remarks

No data available for this product.

13. Disposal considerations

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws. This product contains methyl ethyl ketone (MEK) at less than 0.5%. Wastes containing MEK at 200 ppm or greater are considered to be RCRA Hazardous.

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: Non-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:

Acute Health Hazard

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):**

This product contains methyl ethyl ketone (MEK) at less than 0.5%. Wastes containing MEK at 200 ppm or greater are considered to be RCRA Hazardous. 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:

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	Fluoroalkyl Acrylate Copolymer	CAS# is a trade secret
>=1%	Water	7732-18-5

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

Health	1
Flammability	1
Reactivity	0
Other	

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

HMIS Rating

Health	1
Flammability	1
Physical Hazard	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
Telephone: (866) 377-5269
MSDS Number: R305850
Version Date: 11/15/2010
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