

SAFETY DATA SHEET

FC-43 Reclaimed Fluid

SECTION 1: IDENTIFICATION

1.1. Product identifier:

Trade name: FC-43 Reclaimed Fluid

Other names / Synonyms: Perfluoro compounds, C5-18
617-869-2
86508-42-1

▼ Product no.: 95005R, 95005R-11

Other means of identification: CAS No.: 86508-42-1

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses of the substance or mixture: Industrial purposes, Heat Transfer, Cleaning Agent
the substance or mixture: Restricted to professional users.

Uses advised against : Not Intended for Use as Medical Device or Drug.

1.3. Details of the supplier of the safety data sheet:

Company and address: **TMC Industries, Inc.**
1423 Mill Lane
Waconia, Minnesota 55387
USA
TF: +1 (800) 772-8179
www.tmcindustries.com

Contact person: Nick Hansen

E-mail: sales@tmcindustries.com

SDS date: 9/6/2024

SDS Version: 1.0

Date of previous version: 9/6/2024 (1.0)

1.4. Emergency telephone number:

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case

See also section 4 "First aid measures".

Emergency Telephone Number: CHEMTREC 24-HR Emergency USA, Canada, Puerto Rico, US Virgin Islands (800) 424-9300.

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture:

Not classified according to HCS (29 CFR 1910.1200)

2.2. Label elements:

Hazard pictogram(s): Not applicable.

Signal word: Not applicable.

Hazard statement(s):

Precautionary statement(s):

General: -

Prevention: Avoid release to the environment. (P273)

Response: -

Storage: -

Disposal: Refer to manufacturer or supplier for information on recovery or recycling. (P502)

Additional labelling: Not applicable.

2.3. Other hazards:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Product/substance	Identifiers	% w/w	Classification	Note
Perfluoro compounds, C5-18	CAS No.: 86508-42-1	95-100%		[19]

3.2. Mixtures:

Not applicable. This product is a substance.

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information:

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures:

General information:	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation:	In case of discomfort: bring the person into fresh air.
Skin contact:	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
Eye contact:	Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help.
Ingestion:	Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.
Burns:	Not applicable.

4.2. Most important symptoms and effects, both acute and delayed:

None known.

4.3. Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

Information to medics:

Bring this safety data sheet or the label from this product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture:

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

Nitrogen oxides (NO_x)
Carbon oxides (CO / CO₂)

5.3. Advice for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice. Fire fighters should wear appropriate personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Contaminated areas may be slippery.

6.2. Environmental precautions:

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections:

See section 13 "Disposal considerations" on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities:

Recommended storage material: Always store in containers of the same material as the original container.

Storage conditions: Keep container tightly closed

Incompatible materials: Keep Away from heat, sparks and open flame
Bases
Strong acids
Strong oxidizing agents

7.3. Specific end use(s):

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

8.2. Exposure controls:

Apply general control to prevent unnecessary exposure

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures: Apply standard precautions during use of the product. Avoid inhalation of vapours.


Hygiene measures: Wash hands after use.

Measures to avoid environmental exposure: No specific requirements.


Individual protection measures, such as personal protective equipment:

Generally: Use only protective equipment with a recognized certification mark, e.g. the UL mark.


Respiratory Equipment:

Work situation	Type	Class	Colour	Standards	
When the product is subjected to extreme heat, HF may be formed.	Positive pressure supplied air respirator.				

Skin protection:

Work situation	Recommended	Type/Category	Standards	
When the product is subjected to extreme heat, HF may be formed.	Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Under normal use conditions.	No specific requirements	-	-	-	
When the product is subjected to extreme heat, HF may be formed.	Neoprene				

Eye protection:

Type	Standards	
No specific requirements	-	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- Physical state:** Liquid
- Color:** Clear, Colorless
- Odor:** Slight Ether Odor
- Odor threshold (ppm):** No data available
- pH:** Not Applicable
- Density (g/cm³):** 1.79
- Kinematic viscosity:** 1.012 mm²/s (77 °F)
- Particle characteristics:** No data available
- Phase changes:**
- Melting point/freezing point (°F):** Not applicable
- Softening point/range (°F):** Does not apply to liquids.
- Boiling point (°F):** 320
- Boiling point (°C):** 160
- Vapor pressure:** No data available
- Relative vapor density:** No data available
- Decomposition temperature (°F):** Not applicable
- Data on fire and explosion hazards:**
- Flash point (°F):** None
- Flammability (°F):** No data available
- Auto-ignition temperature (°F):** No data available
- Explosion limits (% v/v):** No relevant or available data due to the nature of the product.
- Solubility:**

Solubility in water: No data available

n-octanol/water coefficient (LogKow): No data available

Solubility in fat (g/L): No data available

9.2. Other information:

Thermal stability: Stable under normal conditions

Evaporation rate (n-butylacetate = 100): No data available

Other physical and chemical parameters: No data available.

Molecular Weight (g/mol): No Data Available

Oxidizing properties: No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No data available.

10.2. Chemical stability:

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies:

None known.

10.4. Conditions to avoid:

Heat

10.5. Incompatible materials:

Strong acids, strong bases, and strong oxidizing agents.

10.6. Hazardous decomposition products:

The product is not degraded when used as specified in section 1.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity:

Product/substance	Perfluoro compounds, C5-18
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>5000 mg/kg

Product/substance	Perfluoro compounds, C5-18
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	5502 mg/m ³

Skin corrosion/irritation:

Product/substance	Perfluoro compounds, C5-18
Species:	Rabbit
Result:	No adverse effect observed (Not irritating)

Serious eye damage/irritation:

Product/substance	Perfluoro compounds, C5-18
Species:	Rabbit
Result:	No adverse effect observed (Not irritating)

Respiratory sensitisation:

Based on available data, the classification criteria are not met.

Skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Product/substance	Perfluoro compounds, C5-18
Conclusion:	No adverse effect observed

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Product/substance	Perfluoro compounds, C5-18
Conclusion:	No adverse effect observed

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Long term effects:

None known.

Other information:

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

No data available.

12.2. Persistence and degradability:

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential:

Product/substance Perfluoro compounds, C5-18
 Conclusion: No potential for bioaccumulation

12.4. Mobility in soil:

No data available.

12.5. Results of PBT and vPvB assessment:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects:

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

This material can be reclaimed by TMC Industries. Contact TMC for more information.

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261):

None of the components are listed

Specific labelling:

Contaminated packing:

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information:

Not dangerous goods according to DOT, IATA and IMDG.

14.6. Special precautions for user:

Not applicable.

14.7. Transport in bulk according to IMO instruments:

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

15.2. U.S. Federal regulations:

TSCA (the non-confidential portion): Perfluoro compounds, C5-18 is listed

- Clean Air Act:** None of the components are listed
- EPCRA Section 302:** None of the components are listed
- EPCRA Section 304:** None of the components are listed
- EPCRA section 313:** None of the components are listed
- CERCLA:** None of the components are listed
- Hazardous chemical inventory reporting:** This product is not subject to Tier II reporting.

State regulations:

- California / Prop. 65:** None of the components are listed
- Massachusetts / Right To Know Act:** None of the components are listed
- New Jersey / Right To Know Act:** None of the components are listed
- New York / Right To Know Act:** None of the components are listed
- Pennsylvania / Right To Know Act:** None of the components are listed

NFPA:

- Health hazard: 0
- Fire hazard: 1
- Instability hazard: 0
- Specific hazard: None

15.4. Restrictions for application:

Restricted to professional users.

15.5. Demands for specific education:

No specific requirements.

15.6. Additional information:

Not applicable.

15.7. Chemical safety assessment:

No

15.8. Sources:

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: OTHER INFORMATION

The full text of identified uses as mentioned in section 1:

None known.

Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

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

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information:

In accordance with HCS (29 CFR 1910.1200(g)), a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information.

The safety data sheet is validated by:

TMC Industries, Inc. - QC Department

Other:

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en