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# SAFETY DATA SHEET

# HT-200 Reclaimed Fluid

## **SECTION 1: IDENTIFICATION**

1.1. Product identifier:

**Trade name:** HT-200 Reclaimed Fluid

**Product no.:** 22200R, 22200R-B, 22200R-2.2, 22200R-11

Other means of identification: CAS No.: 69991-67-9

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

Relevant identified uses of the Heat Transfer Fluid

**substance or mixture:** Restricted to professional users.

**Uses advised against:** None known.

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:** 4/25/2025

SDS Version: 1.0

Date of previous version: 4/25/2025 (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".

# **SECTION 2: HAZARD(S) IDENTIFICATION**

## **OSHA/HCS status:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

# 2.1. Classification of the substance or mixture:

Skin Irrit. 2; H315, Causes skin irritation.

Eye Irrit. 2; H319, Causes serious eye irritation.

STOT SE 3; H335, May cause respiratory irritation.

# 2.2. Label elements:

Hazard pictogram(s):



Signal word: Warning

Hazard statement(s): Causes skin irritation. (H315)

Causes serious eye irritation. (H319) May cause respiratory irritation. (H335)



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**Precautionary statement(s):** 

General:

**Prevention:** Avoid breathing mist/vapour. (P261)

Wash hands thoroughly after handling. (P264) Wear eye protection/protective gloves. (P280)

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. (P305+P351+P338) Call a POISON CENTER/doctor if you feel unwell. (P312)

If eye irritation persists: Get medical advice/attention. (P337+P313)

**Storage:** Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

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

Additional labelling: Not applicable.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1. Substances:

Product/substance	Identifiers	% w/w	Classification	Note
1-Propene, 1,1,2,3,3,3-	CAS No.: 69991-67-9	95-100%	Skin Irrit. 2, H315	[19]
hexafluoro-, oxidized, polymd.			Eye Irrit. 2, H319	
			STOT SE 3, H335	

### 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:** Upon breathing difficulties or irritation of the respiratory tract: Bring the person into

fresh air and stay with him/her.

**Skin contact:** IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly

with water and soap. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at

least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue

flushing during transport.

**Ingestion:** If the person is conscious, rinse the mouth with water and stay with the person. Never

give the person anything to drink.



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Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2024)

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on

vomited material.

**Burns:** Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

## 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

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.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures:

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

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**



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# 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:

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Recommended storage** 

Plastic Container

material:

**Storage conditions:** No specific requirements

**Incompatible materials:** Alkali Metals.

Aluminium

## 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** Apply standard precautions during use of the product. Avoid inhalation of vapours.

measures:

**Hygiene measures:** Take off contaminated clothing and wash it before reuse.

**Measures to avoid** No specific requirements.

environmental exposure:

# 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:** 

Туре	Class	Colour	Standards	
No specific				
requirements				

## Skin protection:

No specific requirements.

## Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
if the situation requires.	Chemical Resistant gloves				

# Eye protection:

Туре	Standards	
No specific	-	
requirements		

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**



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# 9.1. Information on basic physical and chemical properties:

Physical state: Liquid
Color: Colorless
Odor: None

Odor threshold (ppm):

PH:

No data available

No data available

No data available

No data available

Relative density:

No data available

Kinematic viscosity:

No data available

**Dynamic viscosity:** 4.3 mPa.s

Particle characteristics: No data available

**Phase changes:** 

Melting point/freezing point

Not applicable

(°F):

**Softening point/range (°F):** Does not apply to liquids.

Boiling point (°F): 392 Boiling point (°C): 200

**Vapor pressure:** 0.2 mmHg (77 °F) **Relative vapor density:** No data available

Decomposition temperature

(°F):

**Decomposition temperature** >290

(°C):

## Data on fire and explosion hazards:

Flash point (°F): No flash point

**Flammability (°F):** The material is not combustible.

>554

**Auto-ignition temperature (°F):** No data available **Explosion limits (% v/v):** Not applicable

**Solubility:** 

**Solubility in water:** Insoluble

**n-octanol/water coefficient** No data available

(LogKow):

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

9.2. Other information:

Sensitivity to impact: Not explosive

Evaporation rate (n- No data available

butylacetate = 100):

Other physical and chemical

Molecular Weight (g/mol):

aramotore:

parameters:

No data available.

Oxidizing properties: No data available

# **SECTION 10: STABILITY AND REACTIVITY**

# 10.1. Reactivity:

No data available.

# 10.2. Chemical stability:



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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:

None known.

## 10.5. Incompatible materials:

Alkali Metals. Aluminium

## 10.6. Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1. Information on toxicological effects:

**Acute toxicity:** 

Product/substance 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd.

Species: Rat Test: LC50

Result: >37400 mg/kg

Product/substance 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd.

 Species:
 Rat

 Test:
 LC50

 Result:
 17000 mg/kg

Product/substance 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd.

Species: Rat
Route of exposure: Inhalation
Test: LD50 (4hr)
Result: >19540 ppm

Product/substance 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd.

Test method: OECD 403
Species: Rat
Route of exposure: Inhalation
Test: LD50
Result: 19540 ppm

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

# Skin corrosion/irritation:

Product/substance 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd.

Species: Rabbit

Result: No adverse effect observed (Not irritating)

Causes skin irritation.

# Serious eye damage/irritation:

Product/substance 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd.

Species: Rabbit

Result: No adverse effect observed (Not irritating)

Causes serious eye irritation.

# **Respiratory sensitisation:**



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

## Skin sensitisation:

Product/substance 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd.

Species: Guinea pig

Result: No adverse effect observed (not sensitising)

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

## Germ cell mutagenicity:

Product/substance 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd.

Species: Rat

Conclusion: No adverse effect observed

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

## **Carcinogenicity:**

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

# **Reproductive toxicity:**

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

## **STOT-single exposure:**

May cause respiratory irritation.

## **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:

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

## Other information:

None known.

## **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity:

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

# 12.2. Persistence and degradability:

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

# 12.3. Bioaccumulative potential:

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

## 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**



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# 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.

#### 

						n:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	_	-	-	_	_	-

<sup>\*</sup> Packing group

## **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** 1-Propene, 1,1,2,3,3,3-hexafluoro-, oxidized, polymd. is listed

portion):

Clean Air Act:

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 subject to Tier II reporting.

**State regulations:** 

California / Prop. 65: None of the components are listed Massachusetts / Right To Know None of the components are listed

Act:

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 None of the components are listed

Act:

<sup>\*\*</sup> Environmental hazards



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# 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**

## Full text of H-phrases as mentioned in section 3:

H315. Causes skin irritation.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

## 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



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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:**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

# The safety data sheet is validated by:

TMC Industries - 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