



# RADCOLUBE® 2135 (2135-T-H)

## Safety Data Sheet

**MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited**

Issue date: 4/21/2021

Revision date: 4/29/2025

Supersedes: 4/28/2025

Version: 9.0

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### SECTION 1: Identification

#### 1.1. Identification

Trade name	RADCOLUBE® 2135 (2135-T-H)
Specification:	MIL-PRF-17672F ISO Viscosity Grade 68, Military Symbol 2135-T-H, Grade Code C Hydraulic Fluid, Petroleum, Inhibited
Qualification Number (Date):	NAVSEA Letter Ser 05S/2016-001 (8 January 2016)
Military Symbol:	2135-T-H
National Stock Number(s) (NSN):	9150-00-985-7237 5 Gallon Pail 9150-00-584-2560 55 Gallon Drum

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture:	This specification covers petroleum base hydraulic fluids for use in hydraulic systems and in other applications where a high-grade hydraulic fluid having anti-corrosion and anti-oxidation properties are required. This hydraulic fluid is not an extreme pressure (EP) or anti-wear (AW) fluid. This hydraulic fluid should not be used in systems where a fire-resistant fluid is required.
Use of the substance/mixture:	Hydraulic fluids and additives
Recommended use:	Hydraulic fluids

#### 1.3. Supplier

##### Manufacturer

Radco Industries Inc.  
CAGE Code 6ZS16  
700 Kingsland Drive  
Batavia, Illinois 60510  
United States  
T (630) 232-7966  
[www.radcoind.com](http://www.radcoind.com)

#### 1.4. Emergency telephone number

Emergency number:	For Chemical Emergency Call CHEMTREC 24hr/day 7days/week Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)
-------------------	--

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

# RADCOLUBE® 2135 (2135-T-H)

MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

## GHS US classification

Acute toxicity (inhalation:dust,mist), Category 4

H332

Harmful if inhaled.

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

### GHS US labeling

Hazard pictograms (GHS US):



Signal word (GHS US):

Warning

Hazard statements (GHS US):

H332 - Harmful if inhaled

Precautionary statements (GHS US):

P261 - Avoid breathing fume, mist, spray, vapors.

P271 - Use only outdoors or in a well-ventilated area.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a doctor if you feel unwell.

## 2.3. Other hazards which do not result in classification

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Distillates (petroleum), solvent-dewaxed heavy paraffinic	CAS-No.: 64742-65-0	> 95	Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 4, H413

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general:

Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.

First-aid measures after skin contact:

Wash skin with plenty of water.

First-aid measures after eye contact:

Rinse eyes with water as a precaution.

First-aid measures after ingestion:

Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation:

Harmful if inhaled.

Symptoms/effects after skin contact:

None under normal conditions.

# RADCOLUBE® 2135 (2135-T-H)

MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Symptoms/effects after eye contact: None under normal conditions.

Symptoms/effects after ingestion: None under normal conditions.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard: No fire hazard.

Explosion hazard: No direct explosion hazard.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

#### 6.1.1. For non-emergency personnel

Protective equipment: Wear recommended personal protective equipment.

Emergency procedures: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up: Take up liquid spill into absorbent material.

Other information: Dispose of materials or solid residues at an authorized site.

## RADCOLUBE® 2135 (2135-T-H)

MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed:	Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling:	Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures:	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures:	Keep in a cool, well-ventilated place away from heat.
Storage conditions:	Keep cool. Protect from sunlight.
Packaging materials:	Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>RADCOLUBE® 2135 (2135-T-H)</b>	
No additional information available	
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
No additional information available	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	5 mg/m <sup>3</sup> (8 Hours Inhalable fraction)
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL TWA	5 mg/m <sup>3</sup> 8 Hours
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL TWA	5 mg/m <sup>3</sup> (10 Hours)
NIOSH REL STEL	10 mg/m <sup>3</sup> (15 minutes)

### 8.2. Appropriate engineering controls

Appropriate engineering controls:	Ensure good ventilation of the work station.
Environmental exposure controls:	Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:**  
Wear recommended personal protective equipment.

# RADCOLUBE® 2135 (2135-T-H)

MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

<b>Hand protection:</b>
Protective gloves
<b>Eye protection:</b>
Safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Liquid.
Color:	Light yellow to brown
Odor:	Petroleum-like odor
Odor threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	≤ -18 °C (ASTM D97 Pour point)
Boiling point:	No data available
Flash point:	> 171 °C (ASTM D92 Flash point)
Relative evaporation rate (butyl acetate=1):	No data available
Flammability:	Not applicable.
Vapor pressure:	No data available
Relative vapor density at 20°C:	No data available
Relative density:	0.8738 at 15.6°C (Water = 1)
Solubility:	Material insoluble in water.
Partition coefficient n-octanol/water (Log Pow):	No data available

## **RADCOLUBE® 2135 (2135-T-H)**

**MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited**

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	66.1 (61.2 – 73.1) mm <sup>2</sup> /s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosion limits:	No data available
Explosive properties:	Not classified as explosive according to EC criteria, but may present risks in the event of a fire.
Oxidizing properties:	No data available

### **9.2. Other information**

No additional information available

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

### **10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

### **10.5. Incompatible materials**

No additional information available

### **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 (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Inhalation:dust,mist: Harmful if inhaled.
Skin corrosion/irritation:	Not classified
Carcinogenicity:	Not classified
Aspiration hazard:	Not classified
Viscosity, kinematic:	66.1 (61.2 – 73.1) mm <sup>2</sup> /s at 40°C (104°F)
Symptoms/effects after inhalation:	Harmful if inhaled.
Symptoms/effects after skin contact:	None under normal conditions.

**RADCOLUBE® 2135 (2135-T-H)****MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited**

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Symptoms/effects after eye contact:	None under normal conditions.
Symptoms/effects after ingestion:	None under normal conditions.
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Not classified

**RADCOLUBE® 2135 (2135-T-H)**

ATE US (dust, mist):	2.206 mg/l/4h
----------------------	---------------

**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

LD50 oral rat:	> 5000 mg/kg body weight (OECD 401 method)
LD50 dermal rabbit:	> 5000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat:	2.18 (1.8 – 2.55) mg/l/4h (OECD 403 method)
ATE US (vapors):	2.18 mg/l/4h
ATE US (dust, mist):	2.18 mg/l/4h

**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

Serious eye damage/irritation:	Not classified
--------------------------------	----------------

**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

Respiratory or skin sensitization:	Not classified
------------------------------------	----------------

**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

Germ cell mutagenicity:	Not classified
-------------------------	----------------

**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

NOAEL (animal/male, F0/P):	≥ 1000 mg/kg body weight (OECD 421 method)
NOAEL (animal/female, F0/P):	≥ 1000 mg/kg body weight (OECD 421 method)
NOAEL (animal/male, F1):	≥ 1000 mg/kg body weight (OECD 421 method)
NOAEL (animal/female, F1):	≥ 1000 mg/kg body weight (OECD 421 method)

**Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

LOAEL (oral,rat,90 days):	125 mg/kg body weight (OECD 408 method)
NOAEL (dermal,rat/rabbit,90 days):	1000 mg/kg body weight (OECD 410 method)
NOAEC (inhalation,rat,dust/mist/fume,90 days):	> 0.98 mg/l Air (OECD 412 method)

**RADCOLUBE® 2135 (2135-T-H)**

MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

**SECTION 12: Ecological information****12.1. Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**12.2. Persistence and degradability**

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
Persistence and degradability:	Biodegradability in water: no data available.

**12.3. Bioaccumulative potential**

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
Partition coefficient n-octanol/water (Log Pow):	2 – 6
Bioaccumulative potential:	No bioaccumulation data available.

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Regional waste regulation: Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations: Disposal must be done according to official regulations.

Product/Packaging disposal recommendations: Disposal must be done according to official regulations.

Additional information: Do not re-use empty containers.

**SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA / ICAO / ADN / RID / ADG

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
Not regulated for transport			
<b>14.2. Proper Shipping Name</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>Transport document description</b>			
Not applicable	Not applicable	Not applicable	Not applicable

**RADCOLUBE® 2135 (2135-T-H)****MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited**

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

DOT	TDG	IMDG	IATA
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

**14.6. Special precautions for user****DOT**

No data available

**TDG**

No data available

**IMDG**

No data available

**IATA**

No data available

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

---

**SECTION 15: Regulatory information****15.1. US Federal regulations**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**15.2. International regulations****CANADA****Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)**

Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

No additional information available

# RADCOLUBE® 2135 (2135-T-H)

MIL-PRF-17672F ISO VISCOSITY GRADE 68, MILITARY SYMBOL 2135-T-H, GRADE CODE C Hydraulic Fluid, Petroleum, Inhibited

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

## National regulations

### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

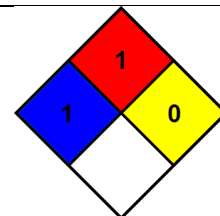
according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date: 04/29/2025

### Full text of hazard classes and H-statements

H332	Harmful if inhaled
H413	May cause long lasting harmful effects to aquatic life

NFPA health hazard 1 - Materials that, under emergency conditions, can cause significant irritation.  
NFPA fire hazard 1 - Materials that must be preheated before ignition can occur.  
NFPA reactivity 0 - Material that in themselves are normally stable, even under fire conditions.



### Hazard Rating

Health 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)  
Physical 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular process or for any particular purpose. Such information stated is to the best of Radco's knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made to its accuracy, reliability, or completeness, purchasers, users and distributors are not relying on any promise, representation, or recommendation made by Radco, and Radco does not accept liability for any loss or damage that may occur from the use of this information. Final determination of suitability of any material is the sole responsibility of the user. All material should be used with caution to guard against unknown hazards. Although certain hazards are described herein, Radco does not guarantee that these are the only hazards that exist.