

# RADCOLUBE® RHP6083 HYDRAULIC FLUID SAFETY DATA SHEET MIL-PRF-6083G HYDRAULIC FLUID, PETROLEUM BASE, FOR PRESERVATION AND OPERATION

# 1. PRODUCT AND COMPANY IDENTIFICATION

#### **Product Name**

RADCOLUBE® RHP6083 HYDRAULIC FLUID

This product meets Military Specification MIL-PRF-6083G.

#### **Qualification Number (Effective Date)**

H-6057 (31 October 2014) H-6062 (9 August 2016)

ISO 9001:2015 Certification C2018-00035

#### **Recommended Use**

This product meets the requirements for one grade of petroleum base hydraulic fluid for use in the  $-54^{\circ}$ C to  $+135^{\circ}$ C ( $-65.2^{\circ}$ F to  $275^{\circ}$ F) temperature range. This fluid is rust inhibited, and is used both as a preservative for hydraulic systems and components as well as being an operational fluid. This hydraulic fluid will not be used for aircraft systems, aircraft ground support equipment, or the preservation of aircraft components. The hydraulic fluid is identified by Military Symbol OHT and NATO Symbol C-635.

### National Stock Numbers (NSN):

9150-00-935-9807 Quarts 9150-00-935-9808 Gallon 9150-00-935-9809 5 Gallon Pail 9150-00-935-9810 55 Gallon Drum

#### **Company Identification**

Headquarters (CAGE Code 6ZS16) Radco Industries, Inc. 700 Kingsland Drive Batavia, IL 60510

Manufacturing Facility (CAGE Code 1RVC4) Radco Industries, Inc. 39W930 Midan Drive LaFox, IL 60147

Customer information number: 1-630-232-7966

# **EMERGENCY TELEPHONE NUMBER**

**Advisory Office in case of poisoning: Chemtrec** 

Chemtrec (North America):

1-800-424-9300

#### 2. HAZARDS IDENTIFICATION

### Classification of mixture:

Aspiration Hazard, Category 1 Eye irritation, Category 2A Skin irritation, Category 2B

#### **Hazard Pictogram:**



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# Signal Word:

**DANGER** 

#### **Hazard Statements:**

H304:

May be fatal if swallowed and enters airways.

H315 + H19:

Causes skin and eye irritation.

H332:

Harmful if inhaled.

H410:

Very toxic to aquatic life with long lasting effects.

#### **Precautionary Statements:**

P202:

Do not handle until all safety precautions have been read and understood.

P261:

Avoid breathing vapors.

P262 + P280:

Do not get in eyes, on skin, or on clothing, and use personal protective equipment as required.

P270:

Do not eat, drink or smoke when using this product.

P273:

Avoid release to the environment.

P280:

Wear protective gloves, protective clothing, eye protection, and face protection.

P301 + P315 + P330 + P331:

IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Get immediate medical attention.

P304 + P315 + P341

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical attention.

P305 + P315 + P338 + P351:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical attention.

P362:

Take off contaminated clothing and wash before reuse.

P405:

Store locked up.

P501:

Dispose of contents and container to an approved waste disposal plant.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical Name**

% Composition CAS Number

Distillates (petroleum), hydrotreated light naphthenic

Trade Secret

64742-53-6

White mineral oil (petroleum)

Trade Secret 8042-47-5

Barium alkylnaphthalenesulfonate

< 2%

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This Safety Data Sheet (SDS) meets the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).



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25619-56-1

Acrylic copolymer

Trade Secret Trade Secret

Additive package

Trade Secret Trade Secret

#### 4. FIRST-AID MEASURES

#### **Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes.

#### Ingestion

If swallowed, drink plenty of water, DO NOT induce vomiting. Immediately call a doctor.

#### Inhalation

Move to fresh air. If unconscious place in recovery position and seek medical advice. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. Remove from further exposure. Immediately call a doctor.

#### Skin

Wash exposed skin with soap and water.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

For small fires use carbon dioxide, dry chemical or foam.

For large fires use alcohol-type foam, universal type foam or water fog.

#### **Fire-Fighting Equipment**

Firefighter should wear normal protective equipment (full bunker gear) and positive-pressure contained breathing apparatus. Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Water runoff can cause environmental damage. Dike and collect water used to fight fires.

#### **Special Fire-Fighting Procedures**

Use water spray to cool fire-exposed containers and structures. If a rail or tank truck is involved in a fire, isolate for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

#### 6. ACCIDENTAL RELEASE MEASURES

Wear protective clothing when taking up spill. Eliminate sources of ignition. This product is insoluble in water and will float on the surface. Prevent from entering sewers or drains. Should this product enter sewers or drains, it should be pumped out into an open vessel.

# 7. HANDLING AND STORAGE

#### Handling

Do not breathe vapors/dust. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

#### Storage

Do not store in open or unlabeled containers. Keep container tightly closed in a dry and well-ventilated place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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**Exposure Limits** 

Component

CAS Number ACGIH TLV OSHA PEL

Acrylic copolymer

Trade Secret None established None established

Additive package

Trade Secret None established None established

Barium alkylnaphthalenesulfonate

25619-56-1 0.5 mg/m³ as Ba 0.5 mg/m³ as Ba

Distillates (petroleum), hydrotreated light naphthenic

64742-53-6 5 mg/m<sup>3</sup> 5 mg/m<sup>3</sup>

White mineral oil (petroleum)

8042-47-5 5 mg/m<sup>3</sup> 5 mg/m<sup>3</sup>

# **Respiratory Protection**

Use with adequate ventilation. Avoid breathing vapor. If heated and ventilation is inadequate, use NIOSH certified respirator, which will protect against organic vapor.

# **Hand Protection**

Wear clothing and gloves that cannot be penetrated by chemicals or oil.

# **Eye Protection**

Safety glasses, chemical goggles, or face shields recommended to prevent contact.

#### **Other Protection**

Do not eat, drink, or smoke when handling this product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Red liquid

Odor:

Light bland petroleum

Odor threshold:

Not available

Auto-ignition temperature:

Not available

Decomposition temperature:

Not available

Evaporation Rate (ASTM D972):

Not available

Flash point Cleveland Open Cup (ASTM D92):

Not applicable

Flash point Pensky-Martens (ASTM D93):

106°C (223°F)

Flammability (solid, gas):

Not flammable

Lower flammability limit:

Not available



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Upper flammability limit:

Not available

Initial boiling point and boiling range:

Not available

Melting point/freezing point:

Not available

Partition coefficient (n-octanol/water), Log Pow:

Not available

pH:

Not applicable

Solubility:

< 0.1% in water

Relative density (ASTM D1298) 15.6°C/15.6°C:

0.87

Vapor density:

Not available

Vapor pressure:

< 1.0 mmHg at 25°C (77°F)

Viscosity (ASTM D445):

16.8 cSt at 40°C (104°F)

480 cSt at -40°C (-40°F)

2,600 cSt at -54°C (-65°F)

#### 10. STABILITY AND REACTIVITY INFORMATION

#### Materials to avoid

Exposure to materials which are highly oxidizing should be avoided.

#### **Hazardous polymerization**

Does not occur.

#### Hazardous decomposition products

Incomplete combustion may give various cracked and oxidized hydrocarbons.

### **Stability**

Stable

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity	Method		Species	Result
	*	Dermal	Rat	$LD_{50} > 2000 \text{ mg/kg}$
Aspiration hazard	Test Method		Species	Result
1-Decene, homopolymer,	hydrogenated	OECD 40	3 Rat	Aspiration hazard, Category 1
Acrylic copolymer				No data available
1- Barium bis(dinonylnaphth	nalenesulphonate)			No data available
Distillate (petroleum), hy	drotreated middle	OECD 40	3 Rat	Aspiration hazard, category 1
Non-hazardous compone	nts			Not expected to be hazardous.
Barium bis(dinonylnaphth	nalenesulphonate)	Inhalatio	n Rat Rat	NOEC = 21 mg/L after 1 hour $LD_{50} = 1750$ mg/kg
Di No Distillate (petroleum), hyd	drotreated middle	Dermal Inhalatio Oral	Rabbit	$LD_{50} > 2000$ mg/kg body weight $LC_{50} = 1.78$ mg/L $LD_{50} > 5000$ mg/kg body weight
Non-hazardous componer				Not expected to be hazardous.

Eye damage / irritation	lest	Species	Results
	Method		
1-Decene, homopolymer, hydrogenated	OECD 405	Rabbit	Not irritating
Acrylic copolymer			Irritant
Barium bis(dinonylnaphthalenesulphonate)			Irritating
Distillate (petroleum), hydrotreated middle	OECD 405	Rabbit	Not irritating
Non-hazardous components			Not expected to be hazardous.





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Germ cell mutagenicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 471	S. typhimurium	Not mutagenic
Acrylic copolymer			No data available
Barium bis(dinonylnaphthalenesulphonate)			No data available
Distillate (petroleum), hydrotreated middle			No data available
Non-hazardous components			No data available

Reproductive toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 415	Rat	No reproductive harm
Acrylic copolymer			No data available
Barium bis(dinonylnaphthalenesulphonate)			No data available
Distillate (petroleum), hydrotreated middle			No data available
Non-hazardous components			No data available

# **Respiratory sensitization** No data available

Skin sensitization	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 406	Guinea pig	Not sensitizing
Acrylic copolymer			No data available
Barium bis(dinonylnaphthalenesulphonate)			Not sensitizing
Distillate (petroleum), hydrotreated middle	OECD 406	Guinea pig	Not sensitizing
Non-hazardous components			Not expected to be sensitizing.

Skin corrosion/irritation	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 404	Rabbit	Not irritating
Acrylic copolymer			Irritant
Barium bis(dinonylnaphthalenesulphonate)			Irritant
Distillate (petroleum), hydrotreated middle	OECD 404	Rabbit	Not irritating
Non-hazardous components			Not expected to be irritating.

Specific target organ toxicity (STOT)- repeated exposure	Method	Species	Results
1-Decene, homopolymer, hydrogenated			No data available
Acrylic copolymer			No data available
Barium bis(dinonylnaphthalenesulphonate)			No data available
Distillate (petroleum), hydrotreated middle	Oral	Rat	NOAEL ≥ 5 mL/kg body weight per day
Non-hazardous components			Not expected to be hazardous.

Specific target organ toxicity (STOT)-single exposure	Results
1-Decene, homopolymer, hydrogenated	No data available
Acrylic copolymer	STOT single exposure, Category 3
Barium bis(dinonylnaphthalenesulphonate)	No data available
Distillate (petroleum), hydrotreated middle	No data available
Non-hazardous components	Not expected to be hazardous.



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#### 12. ECOLOGICAL CONSIDERATIONS

Aquatic Toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 203 OECD 211 DIN 38412- 8	D. magna O. mykiss P. putida	NOEL = 125 mg/L after 21 days $LL_{50} > 1000g/L$ after 96 hours $EC_{50} > 10g/L$ after 16 hours
Acrylic copolymer	Not reported	L. macrochiru s	$LC_{50} = 2.2 \text{ mg/L after } 96 \text{ hours}$
Barium bis(dinonylnaphthalenesulphonate)	OECD 201 OECD 202 Not reported	Algae <i>Daphnia sp.</i> Fish	$EC_{10} = 0.16$ mg/L after 72 hours NOEC = 0.27 mg/L after 48 hours $LC_{50} > 0.28$ mg/L after 96 hours
Distillate (petroleum), hydrotreated middle	OECD 201 OECD 203 QSAR model	Algae O. mykiss D. magna	$NOEL = 10$ mg/L after 752 hours $LL_{50} > 1000$ mg/L after 24 hours $NOEL = 0.163$ mg/L
Non-hazardous components			Not expected to be hazardous.

Terrestrial Toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 222	Earthworm	LC50 > 1000 mg/kg after 56 days
Acrylic copolymer			No data available
Barium bis(dinonylnaphthalenesulphonate)			No data available
Distillate (petroleum), hydrotreated middle	QSAR model	Mallard duck	NOEL > 5000ppm
Non-hazardous components			Not expected to be hazardous.

	Biodegradation	Test Method	Results		
	1-Decene. homopolymer. hydrogenated Bioconcentration Factor (BCF)		OECD 301B Not readily biodegradable Results		
	1-Decene, homopolymer, hydrogenated		No data available  Results		
	1-Decene homonolymer hydrogena Soil Mobility		log K = 10 00 Results		
	1-Decene, homopolymer, hydrogena	ted	No data available		
13	Acrylic copolymer		No data available		
	Barium bis(dinonylnaphthalenesulphonate) Distillate (petroleum), hydrotreated middle		$Log K_{ow} = 5.24$		
l			$Log K_{ow} > 3.0$		
	Non-hazardous components		No data available		

# **SAL INFORMATION**

Disposal must be in accordance with applicable federal, state, or local regulations.

Do not allow product to reach ground water, water course, or sewage systems.

This unused material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable, or reactive according to U.S. EPA definitions (40 CFR Subpart C). This material could also become hazardous waste if it is mixed with or comes into contact with a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze,

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solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove and even a trace of remaining material constitutes as explosive hazard. "Empty" drums should be completely drained, properly bunged, and promptly returned to a drum recycler. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

#### 14. TRANSPORT INFORMATION

# U.S. Dept. of Transportation Shipping Name Not regulated:

**49 CFR 171.4c:** (1) Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft. (2) Single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other requirements of this subchapter provided the packagings meet the general requirements in 173.24 and 173.24a.

# **Canadian Transportation of Dangerous Goods Shipping Name (TDG)**

**UN Number:** 

UN Proper shipping name:

Transport hazard class:

Packing group:

# Not regulated (450-liter or less inner packaging):

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

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**Special Provision 99 (2):** These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.

# International Air Transport Association (IATA)

Not regulated (5-liter or less inner packaging):

**Special Provision A197:** These substances when transported in single or combination packagings containing net quantity per single or inner packaging of less than 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

#### International Carriage of Dangerous Goods by Inland Waterways (ADN)

**UN Number:** 

UN Proper shipping name:

Transport hazard class:

Packing group:

MARPOL73/78 and IBC Code:

Emergency schedules (EmS):

Special provisions:

# Not regulated (5-liter or less inner packaging):

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

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P F-A, S-F 274; 335; 375; 601

**Special Provision 375:** These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or 5 kg or less for solids, are not subject to any other provision of ADN provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 of ADR.

# International Carriage of Dangerous Goods by Rail (RID)

**UN Number:** 

UN Proper shipping name:

Transport hazard class:

Packing group:

Special provisions:

# Not regulated (5-liter or less inner packaging):

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

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274; 335; 375; 601

**Special Provision 375:** These substances when carried in single or combination packagings containing a net quantity per single or inner packaging or 5 l or less for liquids having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of the RID provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

# International Carriage of Dangerous Goods by Road (ADR)

**UN Number:** 

UN Proper shipping name:

Transport hazard class:

Packing group:

Special provisions:

#### Not regulated (5-liter or less inner packaging):

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

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274; 335; 375; 601

**Special Provision 375:** These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 I or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

# International Civil Aviation Organization (ICAO)

Not regulated (5-liter or less inner packing):

**Special Provision A197:** These substances when transported in single or combination packagings containing net quantity per single or inner packaging of less than 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

# International Maritime Dangerous Goods Code (IMDG Code)

**UN Number:** 

UN Proper shipping name:



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Transport hazard class:

Packing group:

MARPOL73/78 and IBC Code:

Emergency schedules (EmS):

Special provisions:

# Not regulated (5-liter or less inner packing):

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATE (PETROLEUM), HYDROTREATED MIDDLE MIXTURE)

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F-A, S-F

274; 335; 969

**2.10.2.7:** Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provision of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this Code relevant to any additional hazards continue to apply.

#### 15. REGULATORY INFORMATION

# California (Proposition 65)

This product does not contain any of the substances known to the State of California to cause cancer, birth defects, or reproductive harm.

#### **CERCLA Reportable Quantity**

This product is not reportable under 40 CFR Part 302.4.

#### **Environmental Protection Agency**

None of the ingredients are listed

### **National Toxicology Program (NTP)**

None of the ingredients are listed.

# **OSHA Hazard Communication Standard**

Not hazardous per 29 CFR 1910.1200(d).

#### SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355)

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

#### SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370)

Hazardous categories for this product are: Acute= no; Chronic= no; Fire=no; Pressure=no; Reactive=no.

#### SARA Title III Section 313 (40 CFR Part 372)

This product is not regulated under Section 313 of SARA and 40 CFR Part 372.

#### **U.S. Inventory (TSCA)**

Listed on inventory.

# Australia Inventory (AICS)

Listed on inventory.

# Canada Inventory (DSL)

All of the ingredients are listed.

#### China (CICS)

None of the ingredients are listed.



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# EC Inventory (EINECS/ELINCS)

In Compliance

International Agency for Research on Cancer (IARC)

None of the ingredients are listed.

Japan Inventory (MITI)

Listed on inventory.

Korea Inventory (ECL)

Listed on inventory.

#### **16. OTHER INFORMATION**

Safety Data Sheet Creation Date: 1 September 2010 Safety Data Sheet Revision Date: 30 May 2018

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