



RADCOLUBE® RHP2110

SAFETY DATA SHEET

MIL-PRF-17672E HYDRAULIC FLUID, PETROLEUM, INHIBITED
ISO VISCOSITY GRADE 46, MILITARY SYMBOL 2110-T-H, NATO SYMBOL H-573, GRADE CODE B

Issue Date: 25 August 2014

Revision Date: 16 April 2018

Revision Number: 4.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name:

RADCOLUBE® RHP2110

Specifications:

MIL-PRF-17672E

Qualification Number:

Ser 05S/2015-250

Qualification Date:

1 April 2015

ISO 9001:2015 Certification Number:

C2018-00035

ISO Viscosity Grade:

46

Military Symbol:

2110-T-H

NATO Code:

H-573

Grade Code:

B

National Stock Numbers (NSN):

9150-00-753-4799

9150-00-985-7234

9150-00-582-5480

1 Oblong Gallon Can

5 Gallon Pail

55 Gallon Drum

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

This product is a steam turbine and gear lubricating oil, moderate service, for use in main and auxiliary turbines and gears, air compressors, and certain hydraulic equipment, as well as for general mechanical lubrication.

1.3 Details of the supplier of the safety data sheet

Headquarters and Manufacturing Facility

Radco Industries, Inc.

700 Kingsland Drive

Batavia, IL 60510

CAGE Code 6ZS16



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Customer information number: 1-630-232-7966

1.4 Emergency Telephone Number

Advisory Office in case of poisoning: Chemtrec
Chemtrec (North America): 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Not classified

2.1 Label elements

Hazard pictograms:

None

Signal word:

None

Classification of mixture is in accordance with United Nations (UN) Globally Harmonized System of Classification and Labelling of Chemicals (GHS), sixth revised edition (2015), and United States Standard 29 CFR 1910 Occupational Safety and Health Standards.

Hazard statements

None

Precaution statements

P101:	If medical advice is needed, have product container or label at hand.
P202:	Do not handle until all safety precautions have been read and understood.
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/face protection.
P301 + P331 + P315:	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.
P303 + P353:	IF ON SKIN (or hair): Rinse skin with water/shower.
P304 + P340 + P342 + P315:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get immediate medical advice/attention.
P305 + P351 + P338 + P310:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P306 + P363:	IF ON CLOTHING: Wash contaminated clothing before reuse.
P404:	Store in a closed container.
P501:	Dispose of contents/container to in accordance with local/regional/national/international regulation.

2.2 Other hazards

PBT and vPvB



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PBT and vPvB assessment is not available as chemical safety assessment has not been conducted.

NFPA Hazard ID

Health: 0
Flammability: 1
Reactivity: 0

HMIS Hazard ID

Health: 0
Flammability: 1
Reactivity: 0

SECTION 3. Composition/information on ingredients

3.1 Substances

Distillates (petroleum), hydrotreated heavy paraffinic

Index number:
CAS number:
EC number:
REACH number:
Synonyms:

649-467-00-8
64742-54-7
265-157-1
01-2119484627-25
Base oil

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Index number:
CAS number:
EC number:
REACH number:
Synonyms:

649-474-00-6
64742-65-0
265-169-7
01-2119471299-27
Base oil

Non-hazardous components

Index number:
CAS number:
EC number:
REACH number:

Not available
Trade Secret
Trade Secret
Not available

3.2 Mixtures

Description of mixture:

Multicomponent mixture of base oils and additives.

Component	CAS Number	EC Number	%Content	Classification of Labeling	M-Factor
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	≥ 45%	Not classified	0



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Revision Date: 16 April
2018

Revision: 4.0

Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	≥ 45%	Not classified	0
Non-hazardous components	Trade Secret	Trade Secret	Trade Secret	Non-hazardous	0

M-Factor determinations are in accordance with UN GHS, sixth revised edition (2015).

See SECTION 16 for full text of the toxicity categories and H-statements listed in this section.

Indicative occupational exposure limit values

Component	Specific Concentration limits
Distillates (petroleum), hydrotreated heavy paraffinic	See SECTION 8. for specific concentration limits.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	See SECTION 8. for specific concentration limits.
Non-hazardous components	None established

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact

Upon accidental eye exposure, wash the eyes promptly with water for at least 20 minutes. If wearing contact lenses, remove them if safe to do so, and continue washing. Get medical attention immediately.

Ingestion

If swallowed, do not induce vomiting. Rinse mouth out with water. Get medical attention immediately.

Inhalation

If respiratory irritation, dizziness, or nausea occurs, move to fresh air and keep at rest in a comfortable position for breathing. If symptoms persist or unconsciousness occurs, seek immediate medical assistance.

Skin contact

Wash skin thoroughly with mild soap and plenty of water for at least 20 minutes. If irritation develops, seek medical advice.

Note to physicians

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms

Eye exposure symptoms

Direct eye exposure may lead to redness and lacrimation (crying tears).

Ingestion symptoms

Small amounts may cause nausea. Large amounts may lead to abdominal obstruction (cramps), constipation or diarrhea.

Inhalation symptoms

May cause irritation of the nose, throat, and lungs.

Skin exposure symptoms

Short-term exposure is not expected to cause irritation.

Delayed symptoms



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Eye exposure symptoms

None expected, however seek medical attention if irritation persists.

Ingestion symptoms

None expected, however seek medical attention if abdominal obstruction, constipation or diarrhea persists.

Inhalation symptoms

None expected, however seek medical attention if respiratory irritation persists.

Skin exposure symptoms

Repeated exposure may lead to irritation. If rash develops, seek medical attention.

4.3 Indication of any immediate medical attention and special treatment needed

Suggestions for clinical testing and medical monitoring for delayed effects are not known. Use first aid when applicable, and seek guidance from a medical physician for specific treatment.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media includes alcohol-resistant foam, carbon dioxide, dry chemical or water fog.

5.2 Special hazards arising from the substance or mixture

No data is available.

5.3 Advice for firefighters

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear personal protective equipment (PPE). Eliminate sources of ignition, if safe to do so. Avoid breathing vapors or mist. Evacuate to designated safe areas.

For emergency responders

If possible, move individual to safe area, and treat symptomatically.

6.2 Environmental precautions

Contain spill, if safe to do so. Prevent from entering sewers or drains.

6.3 Methods and material for containment and cleaning up



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Revision Date: 16 April
2018

Revision: 4.0

Use oil absorbent material to soak up product on the ground. Should this product enter sewers or drains, it should be pumped out into an open vessel. The recovered material should be discarded as hazardous waste.

6.4 Reference to other sections

If appropriate, refer to SECTION 8 and SECTION 13 for additional information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment (PPE) when handling this product. Smoking, eating and drinking should be prohibited in the application area.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

For use in hydraulic systems and in other applications where a high grade hydraulic fluid having anti-corrosion and anti-oxidation properties are required.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	Occupational exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV: (United States, 4/2014) TWA = 5 mg/m ³ 8 hours (Inhalable fraction) NIOSH PEL: (United States, 10/2013) TWA = 5 mg/m ³ 10 hours (Mist) NIOSH PEL: (United States, 10/2013) STEL = 10 mg/m ³ 15 minutes (Mist) OSHA PEL: (United States, 2/2013) TWA = 5 mg/m ³ 8 hours (Mist)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV: (United States, 4/2014) TWA = 5 mg/m ³ 8 hours (Inhalable fraction) NIOSH PEL: (United States, 10/2013) TWA = 5 mg/m ³ 10 hours (Mist) NIOSH PEL: (United States, 10/2013) STEL = 10 mg/m ³ 15 minutes (Mist) OSHA PEL: (United States, 2/2013) TWA = 5 mg/m ³ 8 hours (Mist)
Non-hazardous components	None established

Biological exposure limits

None established for any of the disclosed components.

8.2 Exposure controls

Appropriate engineering controls

Practice general industrial hygiene. Do not eat, drink or smoke near product. Wash hands after handling. Remove clothing and wash separate from other laundry.

Personal protective equipment (PPE)



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RADCOLUBE® RHP2110

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Revision Date: 16 April
2018

Revision: 4.0

Eye/face protection

Safety glasses, chemical safety goggles and/or face shields are recommended when handling this product.

Skin protection

For extended handling, wear oil resistant gloves such as neoprene. Nitrile gloves may be appropriate for short handling periods use. Contact a government approved or accredited manufacturer for specific recommendations.

Other protections

Wear protective clothing ensuring minimal skin exposure. Protective clothing should be chemically impervious to oils and other solvents.

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.

Environmental exposure controls

Do not allow product to reach ground water, water course, or sewage systems. Stop leaks, if safe to do so. Contain spills with absorbent or adsorbent materials.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear, light-yellow liquid
Odor:	Faint petroleum odor
Odor threshold:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Evaporation Rate:	<0.04 (butyl acetate = 1)
Explosive properties:	Not available
Flammability (solid, gas):	Non-flammable
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Flash point Cleveland Open Cup (ASTM D92):	230°C (446°F)
Flash point Pensky-Martens (ASTM D93):	Not available
Initial boiling point and boiling range:	> 300°C (572°F)
Melting point/freezing point:	< -39°C (-38.2°F)
Oxidizing properties:	Non-oxidizing
Partition coefficient (n-octanol/water), Log P _{ow} :	Not available
pH:	Not applicable
Relative density (ASTM D1298) 15.6°C/15.6°C (60°F/60°F):	0.87
Solubility in water:	Insoluble
Vapor density:	Not available
Vapor pressure:	< 0.01 mmHg at 20°C (68°F)
Viscosity (ASTM D445):	140 mm ² /s (cSt) at 20°C (68°F)

9.2 Other information

No further information is available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Non-reactive in its original state.

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Revision Date: 16 April
2018

Revision: 4.0

10.2 Chemical stability

Stable in its original state.

10.3 Possibility of hazardous reactions

Does not occur.

10.4 Conditions to avoid

Oxidizing materials

10.5 Incompatible materials

Keep away from strong oxidizing or reducing agents, including acids, caustics, chlorites (bleach), halogens and peroxides.

10.6 Hazardous decomposition products

Decomposition of this product under fire conditions may produce carbon oxides, phenols, sulfur oxides, sulfates, and other decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute toxicity	Method	Species	Result
Distillates (petroleum), hydrotreated heavy paraffinic	Dermal	Rabbit	LD ₅₀ > 5000 mg/kg
	Inhalation	Rat	LC ₅₀ > 5.53 mg/L after 4 hours
	Oral	Rat	LD ₅₀ > 5000 mg/kg body-weight
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Dermal	Rabbit	LD ₅₀ > 5000 mg/kg
	Inhalation	Rat	LC ₅₀ > 5.53 mg/L after 4 hours
	Oral	Rat	LD ₅₀ > 5000 mg/kg body-weight
Non-hazardous components	--	--	Not expected to be hazardous.
Non-hazardous components	--	--	No data available

Carcinogenicity	Results
Distillates (petroleum), hydrotreated heavy paraffinic	Non-carcinogenic
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Non-carcinogenic
Non-hazardous components	No data available

Eye damage / irritation	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 405	Rabbit	Not irritating
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 405	Rabbit	Not irritating
Non-hazardous components	--	--	Not expected to be irritating.

Germ cell mutagenicity	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 471	<i>S. typhimurium</i>	Not mutagenic
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 471	<i>S. typhimurium</i>	Not mutagenic
Non-hazardous components	--	--	Not mutagenic

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Revision Date: 16 April
2018

Revision: 4.0

Reproductive toxicity	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 421	Rat	NOAEL \geq 1000 mg/kg body-weight/day
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 421	Rat	NOAEL \geq 1000 mg/kg body-weight/day
Non-hazardous components	--	--	Not expected to be toxic to reproduction.

Respiratory sensitization	Results
Distillates (petroleum), hydrotreated heavy paraffinic	No data available
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No data available
Non-hazardous components	Not expected to be hazardous.

Skin sensitization	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 406	Guinea pig	Not sensitizing
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 406	Guinea pig	Not sensitizing
Non-hazardous components	--	--	Not sensitizing

Skin corrosion/irritation	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	--	Rabbit	Not irritating
Distillates (petroleum), solvent-dewaxed heavy paraffinic	--	Rabbit	Not irritating
Non-hazardous components	--	--	Not expected to be hazardous.

Specific target organ toxicity (STOT)-repeated exposure	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	Dermal	Rat	NOAEL < 30 mg/kg/day
	Inhalation	Rat	NOAEL > 980 mg/m ³
	Oral	Rat	NOAEL < 125 mg/kg/day
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Dermal	Rat	NOAEL < 30 mg/kg/day
	Inhalation	Rat	NOAEL > 980 mg/m ³
	Oral	Rat	NOAEL < 125 mg/kg/day
Non-hazardous components			Not expected to be hazardous.

Specific target organ toxicity (STOT)-single exposure	Results
Distillates (petroleum), hydrotreated heavy paraffinic	No data available
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No data available
Non-hazardous components	Not expected to be hazardous.

11.2 Other information

**SAFETY DATA SHEET****RADCOLUBE® RHP2110**MIL-PRF-17672E HYDRAULIC FLUID, PETROLEUM, INHIBITED
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Issue Date: 25 August 2014

Revision Date: 16 April
2018

Revision: 4.0

See SECTION 16 for toxicity references.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Aquatic Toxicity	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 202	<i>Daphnia sp.</i>	NOEL > 10,000 mg/L
	OECD 203	<i>P. promelas</i>	NOEL ≥ 100 mg/L
	(Q)SAR	<i>O. mykiss</i>	NOEL ≥ 1000 mg/L
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 202	<i>Daphnia sp.</i>	NOEL > 10,000 mg/L
	OECD 203	<i>P. promelas</i>	NOEL ≥ 100 mg/L
	(Q)SAR	<i>O. mykiss</i>	NOEL ≥ 1000 mg/L
Non-hazardous components	--	--	Not expected to be hazardous.

Terrestrial Toxicity

No data available

12.2 Persistence and degradability

Biodegradation	Results
Distillates (petroleum), hydrotreated heavy paraffinic	Not readily biodegradable
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Not readily biodegradable
Non-hazardous components	No data available

**12.3
B****bioaccumulative potential****Bioconcentration Factor (BCF)**

No BCF data is available

Partition Coefficient n-octanol / water (Log K_{ow})No Log K_{ow} data is available.**12.4 Mobility in soil**

No data available

12.5 Results of PBT and vPvB assessment

Chemical	Results
Distillates (petroleum), hydrotreated heavy paraffinic	The substance is not PBT / vPvB.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	The substance is not PBT / vPvB.
Non-hazardous components	These substances are not PBT / vPvB.

**12.6 Other
adverse
effects**
No further

information is available

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

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 U.S. EPA (40 CFR Subpart C) criteria for being toxic, corrosive, ignitable, or reactive. This material could also become hazardous



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2018

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waste if it is mixed with or meets a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.

SECTION 14. TRANSPORTATION INFORMATION

United States Department of Transportation (DOT)

Not regulated

Canada Transport - Transportation of Dangerous Goods (TDG)

Not regulated

International Air Transport Association (IATA)

Not regulated

International Carriage of Dangerous Goods by Inland Waterways (AND)

Not regulated

International Carriage of Dangerous Goods by Rail (RID)

Not regulated

International Carriage of Dangerous Goods by Road (ADR)

Not regulated

International Civil Aviation Organization (ICAO)

Not regulated

International Maritime Dangerous Goods Code (IMDG Code)

Not regulated

SECTION 15. REGULATORY INFORMATION

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

Australia Inventory (AICS)

All the ingredients are listed.

California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Canadian Domestic Substances List/Non-Domestic Substances List (DSL/NDL)

All the ingredients are listed.

China Inventory of Existing Chemical Substances (IECSC)

All the ingredients are listed.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Reportable Quantity

This product is not reportable under 40 CFR Part 302.4.

International Agency for Research on Cancer (IARC)

None of the ingredients are listed.

Japan Existing and New Chemical Substances (ENCS)

All the ingredients are listed.



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Korean Existing and Evaluated Chemical Substances (KECL)

All the ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All the ingredients are listed.

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 Section 313 (40 CFR Part 372)

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

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

Hazardous categories for this product are:

Acute =	Chronic =	Fire =	Pressure =	Reactive =
No	No	No	No	No

United States Toxic Substances Control Act (TSCA)

All the ingredients are listed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been conducted.

SECTION 16.

Safety Data Sheet Creation Date:

25 August 2014

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Revision Number:

4.0

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 PROCESS. 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, 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.

RADCOLUBE® is a registered trademark of Radco Industries, Inc.

Toxicological References

"Distillates (petroleum), solvent-dewaxed heavy paraffinic..." *Registration Dossier - ECHA*. European Chemicals Agency, [no date]. Web. 9 May 2017.

Globally Harmonized System of Classification and Labelling of Chemicals: (GHS). 6th ed. New York: United Nations, 2015. Print.