



## RADCOLUBE® 6086L

### SAFETY DATA SHEET

MIL-PRF-6086F GRADE L, LIGHT LUBRICATING OIL, GEAR, PETROLEUM BASE

Issue Date: 6 December 2017

Revision Date: 11 December 2018

Revision Number: 2.0

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

### 1.1 Product Identifier

Product Name: RADCOLUBE® 6086L

Specifications: MIL-PRF-6086F GRADE L  
Qualification Number: AFPET/PTPT 18-004  
Qualification Date: 14 May 2018

ISO 9001:2015 Certification Number: C2018-00035

Military Symbol: OGL  
NATO Code: O-153

National Stock Numbers (NSN): 9150-00-265-9417 1-gallon can  
9150-00-223-4116 5-gallon pail

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

One grade of petroleum-based lubricating oil intended for use in light-to-moderate-loaded gear trains or gear boxes that operate in low-to-medium-speed ranges down to -40°C.

### 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

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

### 2.1 Classification of the substance or mixture:

Aspiration hazard: Category 1

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.

### 2.2 Label elements



Hazard pictograms: Health Hazard

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**Signal word:** DANGER**Hazard statements**

H304:	May be fatal if swallowed and enters airways
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**Precaution statements**

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.

**2.3 Other hazards****PBT and vPvB**

This product is not PBT and vPvB based on its components.

**NFPA Hazard ID**Health: 1  
Flammability: 1  
Reactivity: 0**HMIS Hazard ID**Health: 1  
Flammability: 1  
Reactivity: 0**SECTION 3. Composition/information on ingredients****3.1 Substances**Distillates (petroleum), hydrotreated heavy paraffinicIndex number: 649-467-00-8  
CAS number: 64742-54-7  
EC number: 265-157-1  
REACH number: 01-2119484627-25  
Synonyms: Base oilDistillates (petroleum), hydrotreated light naphthenicIndex number: 649-466-00-2  
CAS number: 64742-53-6  
EC number: 265-156-6  
REACH number: 01-2119480375-34  
Synonyms: Hydrotreated light naphthenic distillateProprietary components

Index number: Not available

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CAS number: Trade Secret

EC number: Trade Secret

REACH number: Not available

Synonyms: Trade Secret

**3.2 Mixtures**

Component	CAS Number	EC Number	%Content	Classification of Labeling	M-Factor
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	> 50%	Not classified	0
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	< 40%	Asp. Tox. 1 – H304	0
Proprietary components	Trade secret	Trade secret	Trade secret	Not classified	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 occupational exposure limits.
Distillates (petroleum), hydrotreated light naphthenic	See SECTION 8 for occupational exposure limits.
Proprietary 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.

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**Delayed symptoms****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.

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**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.

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**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**

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.

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**6.4 Reference to other sections**

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

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**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 applications and systems requiring MIL-PRF-6086 GRADE L lubricating oils.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Component	Form	Occupational Exposure Limits	
Distillates (petroleum), hydrotreated heavy paraffinic	Mist	ACGIH (United States, 4/2014)	TWA = 5 mg/m <sup>3</sup> , 8 hours
	Mist	NIOSH (United States, 10/2013)	TWA = 5 mg/m <sup>3</sup> , 10 hours
	Mist	NIOSH (United States, 10/2013)	STEL = 10 mg/m <sup>3</sup> , 15 minutes
	Mist	OSHA (United States, 2/2013)	TWA = 5 mg/m <sup>3</sup> , 8 hours
Distillates (petroleum), hydrotreated heavy paraffinic	Mist	ACGIH (United States, 4/2014)	TWA = 5 mg/m <sup>3</sup> , 8 hours
	Mist	NIOSH (United States, 10/2013)	TWA = 5 mg/m <sup>3</sup> , 10 hours
	Mist	NIOSH (United States, 10/2013)	STEL = 10 mg/m <sup>3</sup> , 15 minutes
	Mist	OSHA (United States, 2/2013)	TWA = 5 mg/m <sup>3</sup> , 8 hours
Proprietary 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)****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.

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**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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance:	Straw-yellow, clear liquid
Odor:	Petroleum
Odor threshold:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Evaporation Rate:	Not determined
Explosive properties:	Not determined
Flammability (solid, gas):	Not determined
Lower flammability limit:	Not determined
Upper flammability limit:	Not determined
Flash point Cleveland Open Cup (ASTM D92):	155°C (311°F)
Flash point Pensky-Martens (ASTM D93):	Not determined
Initial boiling point and boiling range:	Not determined
Melting point/freezing point:	< -42°C (-43.6°F)
Oxidizing properties:	Non-oxidizing
Partition coefficient (n-octanol/water), Log P <sub>ow</sub> :	Not determined
pH:	Not applicable
Relative density (ASTM D1298) 15.6°C/15.6°C (60°F/60°F):	0.85
Solubility in water:	Insoluble
Vapor density:	Not determined
Vapor pressure:	Not determined
Viscosity (ASTM D445):	23 to 34 mm <sup>2</sup> /s at 37.8°C (100°F)

**9.2 Other information**

No further information is available.

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**SECTION 10. STABILITY AND REACTIVITY****10.1 Reactivity**

Non-reactive in its original state.

**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 and reducing agents.

**10.6 Hazardous decomposition products**

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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 <sub>50</sub> > 5000 mg/kg
	Inhalation	Rat	LC <sub>50</sub> > 5.53 mg/L after 4 hours
	Oral	Rat	LD <sub>50</sub> > 5000 mg/kg body-weight
Distillates (petroleum), hydrotreated light naphthenic	Dermal	Rabbit	LD <sub>50</sub> > 5000 mg/kg
	Inhalation	Rat	LC <sub>50</sub> > 5.53 mg/L after 4 hours
	Oral	Rat	LD <sub>50</sub> > 5000 mg/kg (body weight)
Proprietary components	--	--	Not classified

Aspiration hazard	Test Method	Species	Result
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 403	Rat	LC <sub>50</sub> > 5.53 mg/L after 4 hours
Distillates (petroleum), hydrotreated light naphthenic	--	--	Aspiration hazard, Category 1
Proprietary components	--	--	No data available

Carcinogenicity	Result
Distillates (petroleum), hydrotreated heavy paraffinic	Not classified as carcinogen by IARC, NTP and OSHA.
Distillates (petroleum), hydrotreated light naphthenic	Not classified as carcinogen by IARC, NTP and OSHA.
Proprietary components	Not classified as carcinogen by IARC, NTP and OSHA.

Eye damage / irritation	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 405	Rabbit	Not irritating
Distillates (petroleum), hydrotreated light naphthenic	OECD 405	Rabbit	Not irritating
Proprietary components	--	--	Not classified

Germ cell mutagenicity	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 471	<i>S. typhimurium</i>	Not mutagenic
Distillates (petroleum), hydrotreated light naphthenic	OECD 471	<i>S. typhimurium</i>	Not mutagenic
	OECD 474	Mouse	Not mutagenic
Proprietary components	--	--	Not classified

Reproductive toxicity	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 421	Rat	NOAEL ≥ 1000 mg/kg body-weight/day
Distillates (petroleum), hydrotreated light naphthenic	OECD 421	Rat	NOAEL ≥ 1000 mg/kg/day
Proprietary components	--	--	No data available

**Respiratory sensitization**

No data available

Skin sensitization	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 406	Guinea pig	Not sensitizing
Distillates (petroleum), hydrotreated light naphthenic	OECD 406	Guinea pig	Not sensitizing
Proprietary components	--	--	Not sensitizing

Skin corrosion/irritation	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 404	Rabbit	Not irritating
Distillates (petroleum), hydrotreated light naphthenic	OECD 404	Rabbit	Not irritating
Proprietary components	--	--	Not classified

Specific target organ toxicity – repeated exposure (STOT-RE)	Test Method	Species	Results
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Distillates (petroleum), hydrotreated heavy paraffinic	Dermal Inhalation Oral	Rat Rat Rat	NOAEL < 30 mg/kg/day NOAEL > 980 mg/m <sup>3</sup> NOAEL < 125 mg/kg/day
Distillates (petroleum), hydrotreated light naphthenic	Dermal Inhalation Oral	Rabbit Rat Rat	NOAEL = 1000 mg/kg NOAEL > 980 mg/m <sup>3</sup> NOAEL < 125 mg/kg/day
Proprietary components	--	--	Not classified

**Specific target organ toxicity – single exposure (STOT-SE)**

No data available

**11.2 Other information**

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 OECD 203 (Q)SAR	<i>Daphnia sp.</i> <i>P. promelas</i> <i>O. mykiss</i>	NOEL > 10,000 mg/L NOEL ≥ 100 mg/L NOEL ≥ 1000 mg/L
Distillates (petroleum), hydrotreated light naphthenic	OECD 201 OECD 202 OECD 203 OECD 211 QSAR	<i>Alga</i> <i>Daphnia sp.</i> <i>P. promelas</i> <i>D. magna</i> <i>O. mykiss</i>	NOEL ≥ 100 mg/L after 72 hours NOEL > 10,000 mg/L after 48 hours LL <sub>50</sub> > 100 mg/L after 96 hours NOEL = 10 mg/L after 21 days NOELR ≥ 1000 mg/L after 14 days
Proprietary components	--	--	Not classified

**Terrestrial Toxicity**

No data available

**12.2 Persistence and degradability**

Biodegradation	Test Method	Results
Distillates (petroleum), hydrotreated heavy paraffinic	--	Not readily biodegradable
Distillates (petroleum), hydrotreated light naphthenic	OECD 301F	Inherently biodegradable: 77% after 28 days in water
Proprietary components	--	No data available

**12.3 Bioaccumulative potential****Bioconcentration Factor (BCF)**

No data available

**Partition Coefficient n-octanol / water (Log K<sub>ow</sub>)**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**



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Chemical	Results
Distillates (petroleum), hydrotreated heavy paraffinic	This substance is not PBT / vPvB.
Distillates (petroleum), hydrotreated light naphthenic	The substance is not PBT / vPvB.
Proprietary components	These substances are not PBT and vPvB.

**12.6 Other adverse effects**

No further information is available.

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**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 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.

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**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

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**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/NDSL)**

All the ingredients are listed.

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**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.

**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 = No      Chronic = No      Fire = No      Pressure = No      Reactive = 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.

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**SECTION 16. OTHER INFORMATION**

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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.

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

**Toxicological References**

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

"Distillate (petroleum), hydrotreated light naphthenic." *Registration Dossier - ECHA*. European Chemicals Agency, [no date]. Web. 17 Apr. 2017.

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



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