



RADCOLUBE® RHP6083

Safety Data Sheet

MIL-PRF-6083G Hydraulic Fluid, Petroleum Base, for Preservation and Operation

Issue date: 9/1/2010

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Supersedes: 10/26/2023

Version: 12.1

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Trade name	RADCOLUBE® RHP6083
Specification:	MIL-PRF-6083G Hydraulic Fluid, Petroleum Base, for Preservation and Operation
Qualification Number (Date):	H-6067 (19 February 2020) H-6068 (25 August 2020) H-6072 (28 September 2023)
Military Symbol:	OHT
NATO Code:	C-635
National Stock Number(s) (NSN):	9150-00-935-9807 (Quart) 9150-00-935-9808 (Gallon) 9150-00-935-9809 (5 Gallon Pail) 9150-00-935-9810 (55 Gallon Drum)

1.2. Recommended use and restrictions on use

Use of the substance/mixture:	This product meets the requirements for one grade of petroleum base hydraulic fluid for use in the -54°C to +135°C (-65.2°F to 275°F) temperature range. This fluid is rust inhibited and 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.
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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

Manufacturer

Radco Industries Inc.
CAGE Code 1RVC4
39W930 Midan Drive
Elburn, Illinois 60147
United States
T (630) 232-7966
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)
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SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Aspiration hazard Category 1 H304 May be fatal if swallowed and enters airways

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):

Danger

Hazard statements (GHS US):

H304 - May be fatal if swallowed and enters airways

Precautionary statements (GHS US):

P301+P310 - If swallowed: Immediately call a POISON CENTER, a doctor.

P331 - Do NOT induce vomiting.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.

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), hydrotreated light naphthenic (Base Oil)	CAS-No.: 64742-53-6	70 – 90	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated middle (Base Oil)	CAS-No.: 64742-46-7	10 – 50	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light naphthenic (Base Oil)	CAS-No.: 64742-53-6	10 – 50	Asp. Tox. 1, H304
Synthetic Hydrocarbon* (Base Stock)	CAS-No.: Trade Secret	Trade Secret	Asp. Tox. 1, H304
Napthalenesulfonic acid, dinonyl-, barium salt (2:1) (Additive)	CAS-No.: 25619-56-1	Trade Secret	Aquatic Chronic 3, H412
Trade Secret 1* (Additive)	CAS-No.: Trade Secret	Trade Secret	Aquatic Acute 3, H402
Distillates (petroleum), hydrotreated light (Base Oil)	CAS-No.: 64742-47-8	0.01 – 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Trade Secret 2*	CAS-No.: Trade Secret	Trade Secret	Not classified

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(Additive)			
Oil Red 235 (Solvent Red 27) (colorants)	CAS-No.: 1320-06-5	0.01	Not classified

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

No additional information available

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

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

No additional information available

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

RADCOLUBE® RHP6083	
USA - OSHA - Occupational Exposure Limits	
Local name	Oil mist, mineral
OSHA PEL TWA	5 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Distillates (petroleum), hydrotreated middle (64742-46-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Petroleum distillates (Naphtha)(Rubber Solvent)
OSHA PEL TWA	2000 mg/m ³ 500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Synthetic Hydrocarbon	
No additional information available	

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Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
No additional information available	
Napthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Barium and soluble compounds
ACGIH OEL TWA	0.5 mg/m ³
Remark (ACGIH)	TLV® Basis: Eye, skin, & GI irr; muscular stimulation. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Barium, soluble compounds (as Ba)
OSHA PEL TWA	0.5 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Trade Secret 1	
No additional information available	
Distillates (petroleum), hydrotreated light (64742-47-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Trade Secret 2	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	3 mg/m ³ (Inhalable fraction)
Oil Red 235 (Solvent Red 27) (1320-06-5)	
USA - OSHA - Occupational Exposure Limits	
Local name	Total Dust (Inert or Nuisance Dust)
OSHA PEL TWA	15 mg/m ³
	50 mppcf
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

8.2. Appropriate engineering controls

No additional information available

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8.3. Individual protection measures/Personal protective equipment

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Clear liquid.
Color:	red
Odor:	Petroleum-like odor
Odor threshold:	No data available
pH:	No data available
Melting point:	No data available
Freezing point:	≤ -63 °C (ASTM D97 Pour point)
Boiling point:	≥ 200 °C
Flash point:	84 – 94 °C (ASTM D93 Flash point)
Relative evaporation rate (butyl acetate=1):	No data available
Flammability:	No data available
Vapor pressure:	No data available
Relative vapor density at 20°C:	No data available
Relative density:	No data available
Density:	0.866 – 0.8874 at 15.6°C (Water = 1)
Solubility:	Insoluble in water.
Partition coefficient n-octanol/water (Log Pow):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	13.2 – 17.3 mm ² /s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosion limits:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Not classified
Skin corrosion/irritation:	Not classified
Carcinogenicity:	Not classified
Aspiration hazard:	May be fatal if swallowed and enters airways.
Viscosity, kinematic:	13.2 – 17.3 mm ² /s at 40°C (104°F)
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Not classified

Distillates (petroleum), hydrotreated middle (64742-46-7)

LD50 oral rat:	> 5000 mg/kg body weight (OECD 401 method)
LD50 dermal rabbit:	> 2000 mg/kg body weight (OECD 402 method)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

LD50 oral rat:	> 5000 mg/kg body weight (OECD 401 method) (OECD 420 method)
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Synthetic Hydrocarbon

LD50 dermal rat:	> 2000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat:	> 5.2 mg/l/4h (OECD 403 method)

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LD50 oral rat:	> 5000 mg/kg body weight (OECD 420 method)
Naphthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)	
LD50 dermal rabbit:	3000 mg/kg body weight
ATE US (dermal):	3000 mg/kg body weight
Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 oral rat:	> 5000 mg/kg body weight (OECD 420 method)
LD50 dermal rabbit:	> 2000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat:	> 5.28 mg/l/4h (OECD 403 method)
Trade Secret 2	
LD50 oral rat:	> 2000 mg/kg (Literature data)
Oil Red 235 (Solvent Red 27) (1320-06-5)	
LD50 oral rat:	> 5000 mg/kg
Distillates (petroleum), hydrotreated middle (64742-46-7)	
Serious eye damage/irritation:	Not classified
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Serious eye damage/irritation:	Not classified
Synthetic Hydrocarbon	
Serious eye damage/irritation:	Not classified
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Serious eye damage/irritation:	Not classified
Naphthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)	
Serious eye damage/irritation:	Not classified
Trade Secret 1	
Serious eye damage/irritation:	Not classified
Distillates (petroleum), hydrotreated light (64742-47-8)	
Serious eye damage/irritation:	Not classified
Trade Secret 2	
Serious eye damage/irritation:	Not classified

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Oil Red 235 (Solvent Red 27) (1320-06-5)	
Serious eye damage/irritation:	Not classified
Distillates (petroleum), hydrotreated middle (64742-46-7)	
Respiratory or skin sensitization:	Not classified
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Respiratory or skin sensitization:	Not classified
Synthetic Hydrocarbon	
Respiratory or skin sensitization:	Not classified
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Respiratory or skin sensitization:	Not classified
Napthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)	
Respiratory or skin sensitization:	Not classified
Trade Secret 1	
Respiratory or skin sensitization:	Not classified
Distillates (petroleum), hydrotreated light (64742-47-8)	
Respiratory or skin sensitization:	Not classified
Trade Secret 2	
Respiratory or skin sensitization:	Not classified
Oil Red 235 (Solvent Red 27) (1320-06-5)	
Respiratory or skin sensitization:	Not classified
Distillates (petroleum), hydrotreated middle (64742-46-7)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Germ cell mutagenicity:	Not classified
Synthetic Hydrocarbon	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Germ cell mutagenicity:	Not classified
Napthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)	
Germ cell mutagenicity:	Not classified

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Trade Secret 1	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated light (64742-47-8)	
Germ cell mutagenicity:	Not classified
Trade Secret 2	
Germ cell mutagenicity:	Not classified
Oil Red 235 (Solvent Red 27) (1320-06-5)	
Germ cell mutagenicity:	Not classified
Distillates (petroleum), hydrotreated middle (64742-46-7)	
NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LOAEL (oral,rat,90 days):	125 mg/kg body weight male (OECD 408 method)
NOAEL (dermal,rat/rabbit,90 days):	1000 mg/kg body weight (OECD 410 method)
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
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)
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (oral,rat,90 days):	750 mg/kg body weight female)
NOAEC (inhalation,rat,vapor,90 days):	≥ 0.024 mg/l Air (OECD 412 method)

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

Distillates (petroleum), hydrotreated middle (64742-46-7)	
LC50 - Fish [1]:	1.2 mg/l Species: Oncorhynchus mykiss (Rainbow trout), 21 days
EC50 - Crustacea [1]:	2.9 mg/l Species: Daphnia magna (Water flea), 96 Hours
Napthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)	
LC50 - Fish [1]:	0.28 mg/l 96 Hours
EC50 - Crustacea [1]:	78 mg/l EC50 48h - Daphnia magna [mg/l]
NOEC chronic fish:	0.27 mg/l 48 Hours

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12.2. Persistence and degradability

Trade Secret 2	
Persistence and degradability:	Not readily biodegradable in water.

12.3. Bioaccumulative potential

Naphthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)	
Partition coefficient n-octanol/water (Log Kow):	6.7 at 20°C

Trade Secret 2	
Bioaccumulative potential:	No bioaccumulation data available.

12.4. Mobility in soil

Naphthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)	
Mobility in soil:	5.24 QSAR

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

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

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT):	Not applicable
Proper Shipping Name (TDG):	Not applicable
Proper Shipping Name (IMDG):	Not applicable
Proper Shipping Name (IATA):	Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT): Not applicable

TDG

Transport hazard class(es) (TDG): Not applicable

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IMDG

Transport hazard class(es) (IMDG): Not applicable

IATA

Transport hazard class(es) (IATA): Not applicable

14.4. Packing group

Packing group (DOT): Not applicable

Packing group (TDG): Not applicable

Packing group (IMDG): Not applicable

Packing group (IATA): Not applicable

14.5. Environmental hazards

Other information: 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**

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Distillates (petroleum), hydrotreated middle	64742-46-7	Present	Active	
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Present	Active	
Synthetic Hydrocarbon		Present	Active	XU
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Present	Active	

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Napthalenesulfonic acid, dinonyl-, barium salt (2:1)	25619-56-1	Present	Active	
Trade Secret 1		Not present	-	
Distillates (petroleum), hydrotreated light	64742-47-8	Present	Active	
Trade Secret 2		Present	Active	XU
Oil Red 235 (Solvent Red 27)	1320-06-5	Present	Active	

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), hydrotreated middle (64742-46-7)**

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Listed on the Canadian DSL (Domestic Substances List)

Synthetic Hydrocarbon

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Listed on the Canadian DSL (Domestic Substances List)

Napthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

Trade Secret 2

Listed on the Canadian DSL (Domestic Substances List)

Oil Red 235 (Solvent Red 27) (1320-06-5)

Listed on the Canadian DSL (Domestic Substances List)

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EU-Regulations

No additional information available

National regulations

Distillates (petroleum), hydrotreated middle (64742-46-7)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Synthetic Hydrocarbon
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Napthalenesulfonic acid, dinonyl-, barium salt (2:1) (25619-56-1)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Distillates (petroleum), hydrotreated light (64742-47-8)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Trade Secret 2
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

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Full text of H-phrases	
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	1 - Materials that must be preheated before ignition can occur.

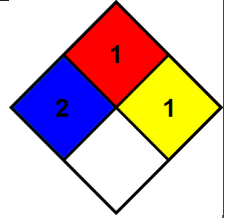
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NFPA reactivity 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Hazard Rating

Health 2 Moderate Hazard - Temporary or minor injury may occur

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 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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.