



RADCOLUBE® RHP5606

Safety Data Sheet

MIL-PRF-5606J Hydraulic Fluid, Petroleum Base; Aircraft, Missile, and Ordnance

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

SECTION 1: Identification

1.1. Identification

Trade name: RADCOLUBE® RHP5606
Specification: MIL-PRF-5606J Hydraulic Fluid, Petroleum Base; Aircraft, Missile, and Ordnance
Qualification Number (Date): AFPET/PTPS 21-006 (9 March 2021)

Military Symbol: OHA
NATO Code: H515

National Stock Number(s) (NSN):
9150-00-252-6383 (Quart)
9150-00-223-4134 (Gallon)
9150-00-082-7524 (10 Gallon Drum)
9150-00-265-9408 (55 Gallon Drum)

1.2. Recommended use and restrictions on use

Use of the substance/mixture: This product is a MIL-PRF-5606J petroleum base hydraulic fluid for use in the -54 °C to +135 °C temperature range (see MIL-PRF-5606J paragraph 6.1). This fluid is identified by military symbol OHA and NATO Code No. H-515.

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)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled
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):



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Signal word (GHS US):	Danger
Hazard statements (GHS US):	H304 - May be fatal if swallowed and enters airways H332 - Harmful if inhaled
Precautionary statements (GHS US):	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P271 - Use only outdoors or in a well-ventilated area. P301+P310 - If swallowed: Immediately call a poison center or doctor. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P312 - Call a poison center or doctor if you feel unwell. P331 - Do NOT induce vomiting. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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
Distillate (petroleum), hydrotreated middle (Base Oil)	CAS-No.: 64742-46-7	70 – 90	Flam. Liq. 4, H227 Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Distillates (petroleum), hydrotreated light naphthenic (Base Oil)	CAS-No.: 64742-53-6	1 – 10	Asp. Tox. 1, H304
Synthetic hydrocarbon* (Base Stock)	CAS-No.: Trade Secret	Trade Secret	Acute Tox. 4 (Inhalation), H332 Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light (Base Oil)	CAS-No.: 64742-47-8	0.16 – 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Petroleum distillates, hydrotreated middle (Base Oil, Additive)	CAS-No.: 64742-46-7	0.01 – 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Petroleum distillates, hydrotreated light (Base Oil, Additive)	CAS-No.: 64742-46-7	0.01 – 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304

*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

First-aid measures general:	Call a physician immediately.
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:	Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after ingestion: Risk of lung edema.

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.

5.2. Specific hazards arising from the chemical

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

5.3. Special protective equipment and precautions for fire-fighters

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

6.1.1. For non-emergency personnel

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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Collect spillage.

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

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

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Storage conditions: Store locked up. Store in a well-ventilated place. Keep cool.

Storage temperature: -57 – 49 °C

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
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:	red
Odor:	Petroleum-like odour
Odor threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	≤ -69 ASTM D97 Pour Point
Boiling point:	No data available
Flash point:	93 °C ASTM D93 Flash Point by Pensky-Martens Closed Cup
Relative evaporation rate (butyl acetate=1):	No data available
Flammability (solid, gas):	Not applicable.
Vapor pressure:	No data available
Relative vapor density at 20 °C:	No data available
Relative density:	0.867 – 0.878 at 15.6°C (Water = 1)

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Solubility:	Material 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:	13.7 – 14.4 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

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):	Harmful if inhaled.
Skin corrosion/irritation:	Not classified
Carcinogenicity:	Not classified
Aspiration hazard:	May be fatal if swallowed and enters airways.
Viscosity, kinematic:	13.7 – 14.4 mm ² /s at 40°C (104°F)
Symptoms/effects after ingestion:	Risk of lung edema.
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Not classified

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ATE US (dust, mist):	4.919 mg/l/4h
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Distillate (petroleum), hydrotreated middle (64742-46-7)	
LD50 oral rat:	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit:	> 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LD50 oral rat:	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 oral rat:	> 5000 mg/kg body weight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rabbit:	> 2000 mg/kg body weight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat:	> 5.28 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -
Synthetic hydrocarbon	
LD50 oral rat:	> 5000 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Read-across, Oral, 14 day(s))
LD50 dermal rat:	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Petroleum distillates, hydrotreated middle (64742-46-7)	
LD50 oral rat:	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit:	> 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Petroleum distillates, hydrotreated light (64742-46-7)	
LD50 oral rat:	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit:	> 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Distillate (petroleum), hydrotreated middle (64742-46-7)	
NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight Animal: rat, Animal sex: male
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight Animal: rat, Animal sex: male
Petroleum distillates, hydrotreated middle (64742-46-7)	
NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight Animal: rat, Animal sex: male
Petroleum distillates, hydrotreated light (64742-46-7)	
NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight Animal: rat, Animal sex: male
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LOAEL (oral,rat,90 days):	125 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (dermal,rat/rabbit,90 days):	1000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (oral,rat,90 days):	750 mg/kg body weight Animal: rat, Animal sex: female

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Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEC (inhalation, rat, vapor, 90 days):	≥ 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

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

Ecology - general: Toxic to aquatic life with long lasting effects.

Distillate (petroleum), hydrotreated middle (64742-46-7)	
LC50 - Fish [1]:	1.13 mg/l LC50 96h fish
LC50 - Other aquatic organisms [1]:	7.385 mg/l EC50 48h - Daphnia magna [mg/l]
ErC50 algae:	1.714 mg/l
NOEC (chronic):	0.163 mg/l Aquatic invertebrates after 21 days

12.2. Persistence and degradability

Distillate (petroleum), hydrotreated middle (64742-46-7)	
Persistence and degradability:	Inherently biodegradable.
Synthetic hydrocarbon	
Persistence and degradability:	Biodegradability in soil: no data available. Biodegradability in water: no data available.

12.3. Bioaccumulative potential

Distillate (petroleum), hydrotreated middle (64742-46-7)	
Bioconcentration factor (BCF REACH):	< 500
Partition coefficient n-octanol/water (Log Pow):	3.9 – 6 Source: IUCLID
Bioaccumulative potential:	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).
Synthetic hydrocarbon	
Bioaccumulative potential:	No bioaccumulation data available.

12.4. Mobility in soil

Distillate (petroleum), hydrotreated middle (64742-46-7)	
Mobility in soil:	> 3

12.5. Other adverse effects

No additional information available

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

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

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

DOT NA No: Not applicable
 UN-No. (TDG): Not applicable

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UN-No. (IMDG): 3082

UN-No. (IATA): 3082

14.2. UN proper shipping name

Proper Shipping Name (DOT): Not applicable

Proper Shipping Name (TDG): Not applicable

Proper Shipping Name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Distillate (petroleum), hydrotreated middle mixture)

Proper Shipping Name (IATA): Environmentally hazardous substance, liquid, n.o.s. (Contains Distillate (petroleum), hydrotreated middle mixture)

Transport document description (IMDG): UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Distillate (petroleum), hydrotreated middle mixture), 9, III (93°C c.c.)

Transport document description (IATA): UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Contains Distillate (petroleum), hydrotreated middle mixture), 9, III

14.3. Transport hazard class(es)

DOT

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

TDG

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

IMDG

Transport hazard class(es) (IMDG): 9

Hazard labels (IMDG): 9



IATA

Transport hazard class(es) (IATA): 9

Hazard labels (IATA): 9



14.4. Packing group

Packing group (DOT): Not applicable

Packing group (TDG): Not applicable

Packing group (IMDG): III

Packing group (IATA): III

14.5. Environmental hazards

Other information: No supplementary information available.

14.6. Special precautions for user

DOT

No data available

TDG

Emergency Response Guide (ERG) Number: 171

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IMDG

Special provision (IMDG):	274, 335, 969
Limited quantities (IMDG):	5 L
Excepted quantities (IMDG):	E1
Packing instructions (IMDG):	LP01, P001
Packing provisions (IMDG):	PP1
IBC packing instructions (IMDG):	IBC03
Tank instructions (IMDG):	T4
Tank special provisions (IMDG):	TP1, TP29
EmS-No. (Fire):	F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage):	S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG):	A

IATA

PCA Excepted quantities (IATA):	E1
PCA Limited quantities (IATA):	Y964
PCA limited quantity max net quantity (IATA)	30kgG
PCA packing instructions (IATA):	964
PCA max net quantity (IATA):	450L
CAO packing instructions (IATA):	964
CAO max net quantity (IATA):	450L
Special provision (IATA):	A97, A158, A197, A215
ERG code (IATA):	9L

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
Distillate (petroleum), hydrotreated middle	64742-46-7	Present	Active	
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Present	Active	
Distillates (petroleum), hydrotreated light	64742-47-8	Present	Active	
Synthetic hydrocarbon		Present	Active	
Petroleum distillates, hydrotreated middle	64742-46-7	Present	Active	
Petroleum distillates, hydrotreated light	64742-46-7	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

Distillate (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)

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

Listed on the Canadian DSL (Domestic Substances List)

Synthetic hydrocarbon

Listed on the Canadian DSL (Domestic Substances List)

Petroleum distillates, hydrotreated middle (64742-46-7)

Listed on the Canadian DSL (Domestic Substances List)

Petroleum distillates, hydrotreated light (64742-46-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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

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)

Petroleum distillates, hydrotreated middle (64742-46-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Petroleum distillates, hydrotreated light (64742-46-7)

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
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value

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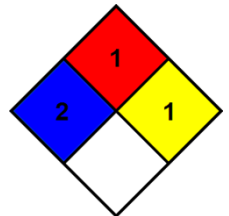
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Abbreviations and acronyms	
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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.

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.

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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.