



# RADCOLUBE® FR257

## Safety Data Sheet

**MIL-PRF-87257D Hydraulic Fluid, Fire Resistant, Low Temperature, Synthetic Hydrocarbon Base, Aircraft and Missile**

Issue date: 2/2/2010

Revision date: 10/1/2024

Supersedes: 9/27/2024

Version: 10.0

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

### SECTION 1: Identification

#### 1.1. Identification

Trade name	RADCOLUBE® FR257
Specification:	MIL-PRF-87257D Hydraulic Fluid, Fire Resistant, Low Temperature, Synthetic Hydrocarbon Base, Aircraft and Missile
Qualification Number (Date):	AFPET/PTPS 19-011 (18 July 2019) AFPET/PTPS 21-008 (20 April 2021) AFPET/PTPS 24-009 (22 July 2024)
NATO Code:	H-538
National Stock Number(s) (NSN):	9150-01-388-7769 (Quart) 9150-01-386-6687 (Gallon) 9150-01-391-2087 (5 Gallon Pail) 9150-01-387-4577 (55 Gallon Drum)

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture:	Synthetic hydrocarbon base hydraulic fluid for use in the -54°C to +200°C (-65°F to 392°F) temperature range in aircraft and missile hydraulic systems.
Use of the substance/mixture:	Hydraulic fluids and additives

#### 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](http://www.radcoind.com)

##### Manufacturer

Radco Industries Inc.  
CAGE Code 1RVC4  
39W930 Midan Drive  
LaFox, Illinois 60147  
United States  
T (630) 232-7966  
[www.radcoind.com](http://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

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### GHS US classification

Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled
Reproductive toxicity Category 2	H361	Suspected of damaging fertility
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

H332 - Harmful if inhaled

H361 - Suspected of damaging fertility

Precautionary statements (GHS US):

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing fume, mist, spray, vapors.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, protective gloves, protective clothing.

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

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a doctor, a POISON CENTER if you feel unwell.

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
dec-1-ene, dimers, hydrogenated	CAS-No.: 68649-11-6	25 – 75	Acute Tox. 4 (Inhalation), H332 Asp. Tox. 1, H304
Synthetic hydrocarbon*	CAS-No.: Trade Secret	30 – 50	Aquatic Chronic 3, H412
Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated	CAS-No.: 163149-28-8	0 – 25	Asp. Tox. 1, H304
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	CAS-No.: 68649-12-7	0 – 25	Asp. Tox. 1, H304

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Name	Product identifier	%	GHS US classification
Reaction products of 1-decene and 1-dodecene, hydrogenated	CAS-No.: 151006-60-9	0 – 25	Asp. Tox. 1, H304
Trade Secret #1*	CAS-No.: Trade Secret	< 1	Repr. 2, H361 STOT RE 2, H373

\*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

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## 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.

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

Symptoms/effects after inhalation:	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact:	None under normal conditions.
Symptoms/effects after eye contact:	None under normal conditions.
Symptoms/effects after ingestion:	Risk of lung edema.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media:	Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard:	No fire hazard.
Explosion hazard:	No direct explosion hazard.
Hazardous decomposition products in case of fire:	Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions:	Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
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**

General measures: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material-damage.

**6.1.1. For non-emergency personnel**

Protective equipment: Wear recommended personal protective equipment.

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".

Emergency procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

For containment: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

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.

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

Additional hazards when processed: Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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**

Technical measures: Keep in a cool, well-ventilated place away from heat.

Storage conditions: Store locked up.

Packaging materials: Store always product in container of same material as original container.

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

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<b>RADCOLUBE® FR257</b>
No additional information available
<b>dec-1-ene, dimers, hydrogenated (68649-11-6)</b>
No additional information available
<b>Synthetic hydrocarbon</b>
No additional information available
<b>Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated (163149-28-8)</b>
No additional information available
<b>1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (68649-12-7)</b>
No additional information available
<b>Reaction products of 1-decene and 1-dodecene, hydrogenated (151006-60-9)</b>
No additional information available
<b>Trade Secret #1</b>
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

### Personal protective equipment:

Wear recommended personal protective equipment.

<b>Hand protection:</b>
Protective gloves
<b>Eye protection:</b>
Safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
[In case of inadequate ventilation] wear respiratory protection.

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### 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:	slight
Odor threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	≤ -63 °C (ASTM D97 Pour point)
Boiling point:	No data available
Flash point:	170 °C
Relative evaporation rate (butyl acetate=1):	No data available
Flammability:	Not applicable.
Vapor pressure:	< 0.01 mm Hg at 20°C
Relative vapor density at 20°C:	No data available
Relative density:	0.821 – 0.8419 at 15.6°C (Water = 1)
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:	6.8 mm <sup>2</sup> /s at 40°C
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

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### 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):	Inhalation:dust,mist: Harmful if inhaled.
Skin corrosion/irritation:	Not classified
Carcinogenicity:	Not classified
Aspiration hazard:	May be fatal if swallowed and enters airways.
Viscosity, kinematic:	6.8 mm <sup>2</sup> /s at 40°C
Symptoms/effects after inhalation:	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact:	None under normal conditions.
Symptoms/effects after eye contact:	None under normal conditions.
Symptoms/effects after ingestion:	Risk of lung edema.
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Suspected of damaging fertility.

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ATE US (dust, mist): 2.891 mg/l/4h

#### dec-1-ene, dimers, hydrogenated (68649-11-6)

LD50 oral rat: > 5000 mg/kg body weight (OECD 423 method)

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

ATE US (gases): 4500 ppmV/4h

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ATE US (vapors):	11 mg/l/4h
ATE US (dust, mist):	1.5 mg/l/4h

**Synthetic hydrocarbon**

LD50 oral rat:	> 15800 mg/kg body weight (OECD 401 method)
LD50 dermal rabbit:	> 7940 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat:	> 5.7 mg/l/4h (OECD 403 method)

**Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated (163149-28-8)**

LD50 dermal rat:	> 2000 mg/kg body weight (OECD 402 method)
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**1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (68649-12-7)**

LD50 dermal rat:	> 2000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat:	> 5.06 mg/l/4h (OECD 403 method)

**Reaction products of 1-decene and 1-dodecene, hydrogenated (151006-60-9)**

LD50 dermal rat:	> 2000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat:	> 5 mg/l (OECD 403 method)

**Trade Secret #1**

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

**dec-1-ene, dimers, hydrogenated (68649-11-6)**

Serious eye damage/irritation:	Not classified
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**Synthetic hydrocarbon**

Serious eye damage/irritation:	Not classified
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**Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated (163149-28-8)**

Serious eye damage/irritation:	Not classified
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**1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (68649-12-7)**

Serious eye damage/irritation:	Not classified
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**Reaction products of 1-decene and 1-dodecene, hydrogenated (151006-60-9)**

Serious eye damage/irritation:	Not classified
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Serious eye damage/irritation:	Not classified
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<b>dec-1-ene, dimers, hydrogenated (68649-11-6)</b>	
Respiratory or skin sensitization:	Not classified
<b>Synthetic hydrocarbon</b>	
Respiratory or skin sensitization:	Not classified
<b>Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated (163149-28-8)</b>	
Respiratory or skin sensitization:	Not classified
<b>1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (68649-12-7)</b>	
Respiratory or skin sensitization:	Not classified
<b>Reaction products of 1-decene and 1-dodecene, hydrogenated (151006-60-9)</b>	
Respiratory or skin sensitization:	Not classified
<b>Trade Secret #1</b>	
Respiratory or skin sensitization:	Not classified
<b>dec-1-ene, dimers, hydrogenated (68649-11-6)</b>	
Germ cell mutagenicity:	Not classified
<b>Synthetic hydrocarbon</b>	
Germ cell mutagenicity:	Not classified
<b>Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated (163149-28-8)</b>	
Germ cell mutagenicity:	Not classified
<b>1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (68649-12-7)</b>	
Germ cell mutagenicity:	Not classified
<b>Reaction products of 1-decene and 1-dodecene, hydrogenated (151006-60-9)</b>	
Germ cell mutagenicity:	Not classified
<b>Trade Secret #1</b>	
Germ cell mutagenicity:	Not classified
<b>Synthetic hydrocarbon</b>	
LOAEL (animal/male, F0/P):	2102 mg/kg body weight (OECD 415 method)
LOAEL (animal/female, F0/P):	2399 mg/kg body weight (OECD 415 method)
LOAEL (animal/male, F1):	2102 mg/kg body weight (OECD 415 method)
LOAEL (animal/female, F1):	2399 mg/kg body weight (OECD 415 method)
NOAEL (animal/male, F1):	178 mg/kg body weight (OECD 415 method)

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<b>Synthetic hydrocarbon</b>	
NOAEL (animal/female, F1):	203 mg/kg body weight (OECD 415 method)

<b>Trade Secret #1</b>	
NOAEL (animal/male, F0/P):	18 – 54 mg/kg body weight (OECD 443 method)
NOAEL (animal/female, F0/P):	18 – 54 mg/kg body weight (OECD 443 method)
NOAEL (animal/male, F1):	18 – 167 mg/kg body weight (OECD 443 method)
NOAEL (animal/female, F1):	18 – 167 mg/kg body weight (OECD 443 method)
Additional data:	Reproduction NOAEL, oral, rat: 225 mg/kg bw/day (28 days, (OECD 422 method)), Parental NOAEL, oral, rat: 25 mg/kg bw/day (28 days, (OECD 422 method))

<b>Synthetic hydrocarbon</b>	
NOAEL (subchronic,oral,animal/male,90 days):	200 mg/kg body weight (OECD 408 method)
NOAEL (subchronic,oral,animal/female,90 days):	387 mg/kg body weight (OECD 408 method)

<b>Trade Secret #1</b>	
NOAEL (oral,rat,90 days):	25 mg/kg body weight (OECD 422 method)
STOT-repeated exposure:	May cause damage to organs (liver) through prolonged or repeated exposure (oral).

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

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<b>Synthetic hydrocarbon</b>	
LC50 - Fish [1]:	> 45 mg/l (Species: Oryzias latipes)
EC50 - Crustacea [1]:	> 48 mg/l (Species: Daphnia magna)

<b>Trade Secret #1</b>	
LC50 - Fish [1]:	100 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]:	51 mg/l Daphnia magna (Water flea)

**12.2. Persistence and degradability**

<b>dec-1-ene, dimers, hydrogenated (68649-11-6)</b>	
Persistence and degradability:	Biodegradability in soil: no data available. Biodegradability in water: no data available.

<b>Synthetic hydrocarbon</b>	
Persistence and degradability:	Readily biodegradable in water.

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Synthetic hydrocarbon	
Chemical oxygen demand (COD):	2.72 g O <sub>2</sub> /g substance

**12.3. Bioaccumulative potential**

dec-1-ene, dimers, hydrogenated (68649-11-6)	
Bioaccumulative potential:	No bioaccumulation data available.

Synthetic hydrocarbon	
BCF - Fish [1]:	27 (28 day(s), Lepomis macrochirus, Flow-through system, Freshwater, Read-across)
Partition coefficient n-octanol/water (Log Pow):	8.12 Quantitative structure-activity relationship (QSAR)
Bioaccumulative potential:	The substance has low potential for bioaccumulation.

**12.4. Mobility in soil**

Synthetic hydrocarbon	
Organic Carbon Normalized Adsorption Coefficient (Log Koc):	5.2853 Quantitative structure-activity relationship (QSAR)
Ecology - soil:	Potential for mobility in soil is slight.

**12.5. Other adverse effects**

No additional information available

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

Regional waste regulation:	Disposal must be done according to official regulations.
Waste treatment methods:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations:	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations:	Disposal must be done according to official regulations.
Additional information:	Do not re-use empty containers.

**SECTION 14: Transport information**

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

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
Not regulated for transport			
<b>14.2. Proper Shipping Name</b>			
Not applicable	Not applicable	Not applicable	Not applicable

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DOT	TDG	IMDG	IATA
<b>Transport document description</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Not applicable	Not applicable	Not applicable	Not applicable
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**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Trade Secret #1	CAS-No.	< 1%
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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**

<b>dec-1-ene, dimers, hydrogenated (68649-11-6)</b>
Listed on the Canadian DSL (Domestic Substances List)

<b>Synthetic hydrocarbon</b>
Listed on the Canadian DSL (Domestic Substances List)

<b>Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated (163149-28-8)</b>
Listed on the Canadian DSL (Domestic Substances List)

<b>1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (68649-12-7)</b>
Listed on the Canadian DSL (Domestic Substances List)

<b>Reaction products of 1-decene and 1-dodecene, hydrogenated (151006-60-9)</b>
Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

No additional information available

**National regulations**

No additional information available

**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**

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

Revision date: 10/01/2024

<b>Full text of hazard classes and H-statements</b>	
H304	May be fatal if swallowed and enters airways
H332	Harmful if inhaled
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard	1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	1 - Materials that must be preheated before ignition can occur.

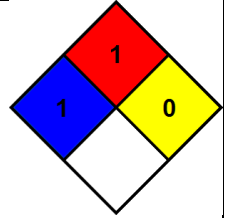
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NFPA reactivity 0 - Material that in themselves are normally stable, even under fire conditions.



**Hazard Rating**

Health 1 Slight Hazard - Irritation or minor reversible injury possible

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 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:			
Section	Changed item	Change	Comments
2.1	GHS-US classification	Modified	

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.