



RADCOLUBE® 680 Type 4

Safety Data Sheet

MIL-PRF-680C TYPE IV Degreasing Solvent, High Flash Point with Citrus Odor

Issue date: 10/13/2021

Revision date: 4/16/2025

Supersedes: 3/3/2025

Version: 7.0

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Identification

Trade name	RADCOLUBE® 680 Type 4
Specification:	MIL-PRF-680C Type IV Degreasing Solvent, High Flash Point with Citrus Odor
Qualification Number (Date):	DS-0049 (2022 February 28)
Military Symbol:	SD-4
National Stock Number(s) (NSN):	6850-01-472-2717 (5 gallon pail) 6850-01-472-2719 (55 gallon drum)

1.2. Recommended use and restrictions on use

Use of the substance/mixture:	A high flash point 141°F (60.6°C) solvent with Citrus odor for degreasing of machine parts in equipment maintenance.
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1.3. Supplier

Manufacturer	Manufacturer
Radco Industries Inc.	Calvary Industries Inc.
CAGE Code 6ZS16	9233 Seward Rd
700 Kingsland Drive	Fairfield, OH 45014
Batavia, Illinois 60510	United States
United States	calvaryindustries.com
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

Flammable liquid, Category 4	H227	Combustible liquid.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
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

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GHS US labeling

Hazard pictograms (GHS US):



Signal word (GHS US):

Danger

Hazard statements (GHS US):

H227 - Combustible liquid

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

Precautionary statements (GHS US):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

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

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective clothing, eye and face protection.

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

P302+P352 - If on skin: Wash with plenty of soap and water.

P331 - Do NOT induce vomiting.

P333+P313 - If skin irritation or rash occurs: Get medical attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder to extinguish.

P403 - Store in a well-ventilated place.

P405 - Store locked up.

P501 - Dispose of contents and 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

Substance type

UVCB

Trade name

RADCOLUBE® 680 Type 4

Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated light	CAS-No.: 64742-47-8	> 90	Flam. Liq. 4, H227 Asp. Tox. 1, H304
d-Limonene	CAS-No.: 5989-27-5	< 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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

3.2. Mixtures

Not applicable

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.
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 ingestion:	Risk of lung edema.
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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.
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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.
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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.
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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".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment:	Collect spillage.
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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: Ensure good ventilation of the work station. Wear personal protective equipment.
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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

RADCOLUBE® 680 Type 4	
No additional information available	
USA - OSHA - Occupational Exposure Limits	
Local name	Oil mist, mineral
OSHA PEL TWA	5 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Distillates (petroleum), hydrotreated light (64742-47-8)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
Local name	Mineral oil, excluding metal working fluids Pure, highly and severely refined
ACGIH OEL TWA	5 mg/m³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024
d-Limonene (5989-27-5)	
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.

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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:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Clear, colorless liquid.
Color:	Colorless
Odor:	citrus-like Lemon odour
Odor threshold:	No data available
pH:	≈ 7 Neutral (ASTM D847)
Melting point:	Not applicable
Freezing point:	≤ -49 °C Pour point
Boiling point:	171 – 240 °C
Flash point:	74 (61 – 92) °C (ASTM D56)
Relative evaporation rate (butyl acetate=1):	No data available
Flammability:	Not applicable.
Vapor pressure:	0.724 mm Hg
Relative vapor density at 20°C:	No data available
Relative density:	0.78 (0.754 – 0.82) at 15.6°C (Water = 1)
Solubility:	No data available

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Partition coefficient n-octanol/water (Log Pow):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	≈ 1.3 mm ² /s
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):	Not classified
Skin corrosion/irritation:	Not classified pH: ≈ 7 Neutral (ASTM D847)
Carcinogenicity:	Not classified
Aspiration hazard:	May be fatal if swallowed and enters airways.
Viscosity, kinematic:	≈ 1.3 mm ² /s
Symptoms/effects after ingestion:	Risk of lung edema.

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STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Not classified

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)

d-Limonene (5989-27-5)

LD50 oral rat:	> 2000 mg/kg body weight (OECD 423 method)
LD50 dermal rabbit:	> 5000 mg/kg body weight Read-across

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

Serious eye damage/irritation:	Not classified
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d-Limonene (5989-27-5)

Serious eye damage/irritation:	Not classified
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Distillates (petroleum), hydrotreated light (64742-47-8)

Respiratory or skin sensitization:	May cause an allergic skin reaction.
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d-Limonene (5989-27-5)

Respiratory or skin sensitization:	May cause an allergic skin reaction.
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Distillates (petroleum), hydrotreated light (64742-47-8)

Germ cell mutagenicity:	Not classified
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d-Limonene (5989-27-5)

Germ cell mutagenicity:	Not classified
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IARC group:	3 - Not classifiable, Not classified
National Toxicity Program (NTP) Status:	Not classified

d-Limonene (5989-27-5)

IARC group:	3 - Not classifiable
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Distillates (petroleum), hydrotreated light (64742-47-8)

NOAEL (animal/male, F0/P):	≥ 3000 mg/kg body weight
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Distillates (petroleum), hydrotreated light (64742-47-8)

NOAEL (oral,rat,90 days):	750 mg/kg body weight female)
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Distillates (petroleum), hydrotreated light (64742-47-8)

NOAEC (inhalation, rat, vapor, 90 days):	≥ 0.024 mg/l Air (OECD 412 method)
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SECTION 12: Ecological information

12.1. Toxicity

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

d-Limonene (5989-27-5)

LC50 - Fish [1]:	720 µg/l (OECD 203 method)
EC50 - Crustacea [1]:	0.307 mg/l (OECD 202 method)

12.2. Persistence and degradability

d-Limonene (5989-27-5)

Persistence and degradability:	Readily biodegradable in water.
ThOD:	3.29 g O ₂ /g substance

12.3. Bioaccumulative potential

d-Limonene (5989-27-5)

BCF - Fish [1]:	864.8 l/kg (QSAR: BCFBAF v3.01)
Partition coefficient n-octanol/water (Log Pow):	4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)
Bioaccumulative potential:	Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).

12.4. Mobility in soil

d-Limonene (5989-27-5)

Surface tension:	No data available
Organic Carbon Normalized Adsorption Coefficient (Log Koc):	3.049 – 3.801 Calculated value: SRC PCKOCWIN v2.0)
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

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

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SECTION 14: Transport information

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

DOT	TDG	IMDG	IATA
14.1. UN number			
1268	UN1268	1268	1268
14.2. Proper Shipping Name			
Petroleum distillates, n.o.s. (CONTAINS d-Limonene)	PETROLEUM DISTILLATES, N.O.S. (CONTAINS d-Limonene)	PETROLEUM DISTILLATES, N.O.S. (CONTAINS)	Petroleum distillates, n.o.s. (CONTAINS)
Transport document description			
UN1268 Petroleum distillates, n.o.s. (CONTAINS d-Limonene), 3, III	UN1268 PETROLEUM DISTILLATES, N.O.S. (CONTAINS d-Limonene), 3, III	UN 1268 PETROLEUM DISTILLATES, N.O.S. (CONTAINS), 3, III (61°C c.c.)	UN 1268 Petroleum distillates, n.o.s. (CONTAINS), 3, III
14.3. Transport hazard class(es)			
3	3	3	3
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
Non-bulk packages may ship as Non-Regulated under 49 CFR 173.150(f)(2).			

14.6. Special precautions for user**DOT**

UN-No. (DOT):

UN1268

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DOT Special Provisions (49 CFR 172.102):	<p>144 - If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.</p> <p>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</p> <p>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</p> <p>T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)</p> <p>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.</p> <p>TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.</p>
DOT Packaging Exceptions (49 CFR 173.xxx):	150
DOT Packaging Non Bulk (49 CFR 173.xxx):	203; Non-bulk packages may ship as Non-Regulated under 49 CFR 173.150(f)(2).
DOT Packaging Bulk (49 CFR 173.xxx):	242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27):	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75):	220 L
DOT Vessel Stowage Location:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
TDG	
UN-No.:	UN1268

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TDG Special Provisions:

91 - Despite paragraph 13.1.5(c) of CGSB-43.146, these dangerous goods may, after January 1, 2010, be handled, offered for transport or transported in a means of containment on a road vehicle, a railway vehicle or a ship on a domestic voyage if the means of containment was manufactured before January 1, 2003 and the following information is set out on a metal label in a holder that is welded to the tank head or to another readily visible location on the tank: (a) the name of the tank's manufacturer; (b) the metal thickness of the tank in millimetres; (c) the capacity of the tank in litres; (d) the year that the tank was manufactured; (e) the label of the Underwriters' Laboratories of Canada (ULC); (f) the words "Mobile Refuelling Tank – ULC/ORD-C142.13"; (g) the words "Not Authorized for Transport of Dangerous Goods Requiring a Specification Tank"; (h) in the case of a tank designed for mounting on a truck or trailer platform, the words "This Tank Shall Be Secured to the Truck or Trailer Platform by the Means Provided By the Tank Manufacturer"; and (i) in the case of a skid-equipped tank that provides clearances of at least 300 mm to grade, the words "Suitable for Towing over Graded Surfaces Only". SOR/2014-152 UN1202, UN1203, UN1223 and UN1863 SOR/2014-152,92 - (1) The consignor must classify these dangerous goods on the basis of samples. (2) The consignor must make available to the Minister, on reasonable notice given by the Minister, a document that explains the sampling method and includes the following information: (a) the scope of the method; (b) the sampling apparatus; (c) the sampling procedures; (d) the frequency and conditions of sampling; and (e) a description of the quality control management system in place. Many methods are available for the sampling of petroleum products. An example can be found in American Society for Testing and Materials Standard ASTM D4057-12, "Standard Practice for Manual Sampling of Petroleum and Petroleum Products". The frequency and conditions of sampling should allow for the variability of the dangerous goods to ensure representativeness. The classification assigned to the dangerous goods should reflect the properties of the dangerous goods during transport. SOR/2014-152 UN1267, UN1268 SOR/2014-152,150 - An emergency response assistance plan (ERAP) is required for these dangerous goods under subsection 7.1(6) of Part 7 (Emergency Response Assistance Plan). SOR/2015-100 UN1170, UN1202, UN1203, UN1267, UN1268, UN1863, UN1987, UN1993, UN3295, UN3475, UN3494 SOR/2015-100

Explosive Limit and Limited Quantity Index:

5 L

Excepted quantities (TDG):

E1

Passenger Carrying Road Vehicle or Passenger

60 L

Carrying Railway Vehicle Index:

Emergency Response Guide (ERG) Number:

128

IMDG

Special provision (IMDG):

223, 955

Limited quantities (IMDG):

5 L

Excepted quantities (IMDG):

E1

Packing instructions (IMDG):

P001, LP01

IBC packing instructions (IMDG):

IBC03

Tank instructions (IMDG):

T4

Tank special provisions (IMDG):

TP1, TP29

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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

EmS-No. (Fire):	F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage):	S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG):	A
Properties and observations (IMDG):	Immiscible with water.

IATA

PCA Excepted quantities (IATA):	E1
PCA Limited quantities (IATA):	Y344
PCA limited quantity max net quantity (IATA)	10L
PCA packing instructions (IATA):	355
PCA max net quantity (IATA):	60L
CAO packing instructions (IATA):	366
CAO max net quantity (IATA):	220L
Special provision (IATA):	A3
ERG code (IATA):	3L

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

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 light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

d-Limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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d-Limonene (5989-27-5)

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

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

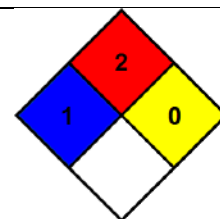
Revision date: 04/16/2025

Full text of hazard classes and H-statements	
H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

NFPA health hazard 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

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	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II IIIA)
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.

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.