



Xceltherm® FF Flush Fluid

Safety Data Sheet

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Supersedes: 6/1/2026

Version: 2.0

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

SECTION 1: Identification

1.1. Identification

Trade name Xceltherm® FF Flush Fluid

1.2. Recommended use and restrictions on use

Use of the substance/mixture: Heating and cooling fluid between -55°C to 345°C (-70°F to 650°F). Liquid or vapor phase to 343°C (650°F).

Use of the substance/mixture: Heat Transfer Fluids

Recommended use: Heat transfer fluids

1.3. Supplier

Manufacturer

Radco Industries L.L.C.

CAGE Code 6ZS16

700 Kingsland Drive

Batavia, Illinois 60510

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

Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs (liver, thyroid gland) through prolonged or repeated exposure (oral).
Aspiration hazard, Category 1	H304	May be fatal if swallowed and enters airways.
Hazardous to the aquatic environment — Chronic Hazard, Category 4	H413	May cause long lasting harmful effects to aquatic life.

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):

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs (liver, thyroid gland) through prolonged or repeated exposure (oral)

H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements (GHS US):

P260 - Do not breathe fume, mist, spray, vapors.

P273 - Avoid release to the environment.

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

P314 - Get medical attention.

P331 - Do NOT induce vomiting.

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

Not applicable

3.2. Mixtures

Name	CAS-No.	%	GHS US classification
Diisopropyl-1,1'-biphenyl	69009-90-1	85 – 95	Asp. Tox. 1, H304 Aquatic Chronic 4, H413

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.

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:

None under normal conditions.

Symptoms/effects after skin contact:

None under normal conditions.

Symptoms/effects after eye contact:

None under normal conditions.

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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.

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. Do not breathe 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.

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

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6.4. Reference to other sections

For further information refer to section 13.

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:	Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe 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:	Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available
Diisopropyl-1,1'-biphenyl (69009-90-1)
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.

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

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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:	Clear, colorless liquid.
Color:	Colorless
Odor:	Aromatic odor
Odor threshold:	No data available
pH:	Not applicable
Melting point:	Not applicable
Freezing point:	≤ -40 °C (ASTM D97 Pour point)
Boiling point:	> 280 °C Initial boiling point and boiling range
Critical temperature:	468.8 °C (Calculated value)
Critical pressure:	1499.61 kPa (Calculated value)
Flash point:	174 °C (ASTM D92 Flash point: Cleveland Open Cup Method)
Relative evaporation rate (butyl acetate=1):	No data available
Flammability:	Not applicable.
Vapor pressure:	< 0.00005 mm Hg at 20°C
Vapor pressure at 50°C:	0.0052 mm Hg
Relative vapor density at 20°C:	No data available
Relative density:	0.96 (0.91 – 1.1) at 25°C
Density:	7.98 lb/gal at 25°C
Molecular mass:	≈ 252 g/mol
Solubility:	Insoluble in water.
Partition coefficient n-octanol/water (Log Pow):	No data available
Auto-ignition temperature:	415 °C
Decomposition temperature:	385 °C
Viscosity, kinematic:	11 mm ² /s at 40°C
Viscosity, dynamic:	No data available

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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: Not applicable
Carcinogenicity:	Not classified
Aspiration hazard:	May be fatal if swallowed and enters airways.
Viscosity, kinematic:	11 mm ² /s at 40°C
Symptoms/effects after inhalation:	None under normal conditions.
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:	May cause damage to organs (liver, thyroid gland) through prolonged or repeated exposure (oral).
Reproductive toxicity:	Not classified

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Diisopropyl-1,1'-biphenyl (69009-90-1)	
LD50 oral rat:	> 5000 mg/kg (OECD 401)
LD50 dermal rabbit:	> 5000 mg/kg (OECD 402)
LC50 Inhalation - Rat:	> 5 mg/l (OECD 403 (Aerosol))
Diisopropyl-1,1'-biphenyl (69009-90-1)	
Skin irritation, dermal, rabbit	not irritating (OECD 404)
Serious eye damage/irritation:	Not classified
Diisopropyl-1,1'-biphenyl (69009-90-1)	
Eye irritation, rabbit	not irritating (OECD 405)
Respiratory or skin sensitization:	Not classified
Diisopropyl-1,1'-biphenyl (69009-90-1)	
Skin sensitization, Guinea pig	negative (No skin sentization)
Germ cell mutagenicity:	Not classified
Diisopropyl-1,1'-biphenyl (69009-90-1)	
Ames test	negative (OECD 471)
Genetic mutation	negative (OECD 476)
Chromosome Aberration	negative (OECD 473)
Diisopropyl-1,1'-biphenyl (69009-90-1)	
IARC group:	Not classified
Diisopropyl-1,1'-biphenyl (69009-90-1)	
NOAEL (animal/male, F0/P):	150 mg/kg body weight per day, rat (oral) (OECD 407)
Additional data:	Teratogenic effects: negative (OECD 406)
Diisopropyl-1,1'-biphenyl (69009-90-1)	
Additional data:	Specific target organ toxicity - Repeated Exposure, liver, thyroid, oral, rat: < 35 mg/kg bw/day (28 d, OECD 407)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: May cause long lasting harmful effects to aquatic life.

Diisopropyl-1,1'-biphenyl (69009-90-1)	
LC50 - Fish [1]:	> 8.2 µg/l (OECD 203, dynamic)
EC50 - Crustacea [1]:	> 4.8 µg/l (daphnia) (OECD 202, dynamic, 48 h)

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Diisopropyl-1,1'-biphenyl (69009-90-1)	
NOEC (acute):	0.01 mg/l (algae) (OECD 201, 72 h)
NOEC (chronic):	0.0063 mg/l (OECD 202, part 2, 21 d)

12.2. Persistence and degradability

Diisopropyl-1,1'-biphenyl (69009-90-1)	
Persistence and degradability:	Not readily biodegradable in the soil. Not readily biodegradable in water.

12.3. Bioaccumulative potential

Diisopropyl-1,1'-biphenyl (69009-90-1)	
Bioconcentration factor (BCF REACH):	> 500
Partition coefficient n-octanol/water (Log Kow):	6.7 (Calculated value)

12.4. Mobility in soil

Diisopropyl-1,1'-biphenyl (69009-90-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc):	> 5 (Calculated value)
Ecology - soil:	Adsorbs into the 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

14.1. UN number

UN-No. (DOT):	UN3082
UN-No.:	UN3082
UN-No. (IMDG):	3082
UN-No. (IATA):	3082

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14.2. UN proper shipping name

Proper Shipping Name (DOT):	Environmentally hazardous substances, liquid, n.o.s. (contains Diisopropyl biphenyl)
Proper Shipping Name (TDG):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Diisopropyl biphenyl)
Proper Shipping Name (IMDG):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Diisopropyl biphenyl)
Proper Shipping Name (IATA):	Environmentally hazardous substance, liquid, n.o.s. (contains Diisopropyl biphenyl)
Transport document description (DOT):	UN3082 Environmentally hazardous substances, liquid, n.o.s. (contains Diisopropyl biphenyl), 9, III
Transport document description (TDG):	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Diisopropyl biphenyl), 9, III
Transport document description (IMDG):	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Diisopropyl biphenyl), 9, III
Transport document description (IATA):	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (contains Diisopropyl biphenyl), 9, III

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT):	9
Hazard labels (DOT):	9



TDG

Transport hazard class(es) (TDG):	9
Hazard labels (TDG)::	9



IMDG

Transport hazard class(es) (IMDG):	9
Hazard labels (IMDG):	9



IATA

Transport hazard class(es) (IATA):	9
Hazard labels (IATA):	9



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14.4. Packing group

Packing group (DOT):	III
Packing group (TDG):	III
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

UN-No. (DOT):	UN3082
DOT Special Provisions (49 CFR 172.102):	<p>8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.</p> <p>146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.</p> <p>173 - An appropriate generic entry may be used for this material.</p> <p>335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.</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):	155
DOT Packaging Non Bulk (49 CFR 173.xxx):	203
DOT Packaging Bulk (49 CFR 173.xxx):	241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27):	No Limit

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DOT Quantity Limitations Cargo aircraft only (49 No Limit

CFR 175.75):

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.:

UN3082

TDG Special Provisions:

16 - 1) The technical name of the most dangerous substance related to the primary class must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Safety Marks.

2) subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S.; b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.; c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S.; d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the “Food and Drugs Act”, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. may be handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport. (2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety. SOR/2014-306 UN3077, UN3082 SOR/2014-306

Explosive Limit and Limited Quantity Index:

5 L

Excepted quantities (TDG):

E1

Emergency Response Guide (ERG) Number:

171

IMDG

Special provision (IMDG):

274, 335, 375, 969

Limited quantities (IMDG):

5 L

Excepted quantities (IMDG):

E1

Packing instructions (IMDG):

LP01, P001

Packing provisions (IMDG):

PP1

IBC packing instructions (IMDG):

IBC03

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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

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

Diisopropyl-1,1'-biphenyl (69009-90-1)

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

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SECTION 16: Other information

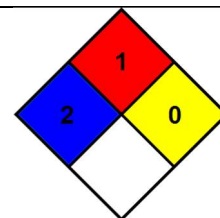
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Data sources: Supplier's safety documents.

Full text of hazard classes and H-statements	
H304	May be fatal if swallowed and enters airways
H373	May cause damage to organs through prolonged or repeated exposure
H413	May cause long lasting harmful effects to aquatic life

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



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	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.