



RADCOLUBE® FOG OIL

SAFETY DATA SHEET

MIL-PRF-12070E(1) FOG OIL, MILITARY SYMBOL SGF-2 AND NATO CODE F-62

Issue Date: 21 March 2016

Revision Date: 30 March 2018

Revision Number: 2.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product Name: RADCOLUBE® FOG OIL

Specifications: MIL-PRF-12070E with Amendment 1

ISO 9001:2015 Certification Number: C2018-00035

Military Symbol: SGF-2
NATO Code: F-62

National Stock Numbers (NSN): 9150-00-261-7895 55-gallon drum

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

For applications requiring one grade and type of fog oil with Military Symbol SGF-2 and NATO Code F-62. A refined mineral oil specifically prepared for use in smoke generators, characterized by its ability to be dispersed into the air as extremely small particles in the form of a smoke.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Headquarters and Manufacturing Facility
Radco Industries, Inc.
700 Kingsland Drive
Batavia, IL 60510
CAGE Code 6ZS16

Customer information number: 1-630-232-7966

1.4 EMERGENCY TELEPHONE NUMBER

Advisory Office in case of poisoning: Chemtrec
Chemtrec (North America): 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Aspiration hazard Category 1

Classification of mixture is in accordance with United Nations (UN) Globally Harmonized System of Classification and Labelling of Chemicals (GHS), sixth revised edition (2015), and United States Standard 29 CFR 1910 Occupational Safety and Health Standards.

See SECTION 16 for toxicity category definitions.

2.1 LABEL ELEMENTS



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Hazard pictograms:
Signal word:

Health Hazard
DANGER

Hazard statements

H304:	May be fatal if swallowed and enters airways.
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Precaution statements

P101:	If medical advice is needed, have product container or label at hand.
P202:	Do not handle until all safety precautions have been read and understood.
P270:	Do not eat, drink or smoke when using this product.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P331 + P315:	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.
P303 + P353:	IF ON SKIN (or hair): Rinse skin with water/shower.
P304 + P340 + P342 + P315:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get immediate medical advice/attention.
P305 + P351 + P338 + P310:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P306 + P363:	IF ON CLOTHING: Wash contaminated clothing before reuse.
P404:	Store in a closed container.
P501:	Dispose of contents/container to in accordance with local/regional/national/international regulation.

2.2 OTHER HAZARDS

PBT and vPvB

This product is not PBT and vPvB.

NFPA Hazard ID

Health: 1
 Flammability: 1
 Reactivity: 0

HMIS Hazard ID

Health: 1
 Flammability: 1
 Reactivity: 0

SECTION 3. Composition/information on ingredients

3.1 SUBSTANCES

Distillates (petroleum), hydrotreated heavy naphthenic

Index number: 649-465-00-7
 CAS number: 64742-52-5
 EC number: 265-155-0
 REACH number: 01-2119467170-45
 Synonyms: Naphthenic base oil;

Component	CAS Number	EC Number	%Content	Classification of Labeling	M-Factor
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Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	100%	Asp. Tox. 1 – H304	0
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M-Factor determinations are in accordance with UN GHS, sixth revised edition (2015).

See SECTION 16 for full text of the toxicity categories and H-statements listed in this section.

Indicative occupational exposure limit values

Component	Specific Concentration limits
Distillates (petroleum), hydrotreated heavy naphthenic	See SECTION 8 for exposure limits.

SECTION 4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Eye contact

Upon accidental eye exposure, wash the eyes promptly with water for at least 20 minutes. If wearing contact lenses, remove them if safe to do so, and continue washing. Get medical attention immediately.

Ingestion

If swallowed, do not induce vomiting. Rinse mouth out with water. Get medical attention immediately.

Inhalation

If respiratory irritation, dizziness, or nausea occurs, move to fresh air and keep at rest in a comfortable position for breathing. If symptoms persist or unconsciousness occurs, seek immediate medical assistance.

Skin contact

Wash skin thoroughly with mild soap and plenty of water for at least 20 minutes. If irritation develops, seek medical advice.

Note to physicians

Treat symptomatically.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Acute symptoms

Eye exposure symptoms

Direct eye exposure may lead to redness and lacrimation (crying tears).

Ingestion symptoms

Small amounts may cause nausea. Large amounts may lead to abdominal obstruction (cramps), constipation or diarrhea.

Inhalation symptoms

May cause irritation of the nose, throat, and lungs.

Skin exposure symptoms

Short-term exposure is not expected to cause irritation.

Delayed symptoms

Eye exposure symptoms

None expected, however seek medical attention if irritation persists.

Ingestion symptoms

None expected, however seek medical attention if abdominal obstruction, constipation or diarrhea persists.

Inhalation symptoms

None expected, however seek medical attention if respiratory irritation persists.

Skin exposure symptoms



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Repeated exposure may lead to irritation. If rash develops, seek medical attention.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Suggestions for clinical testing and medical monitoring for delayed effects are not known. Use first aid when applicable, and seek guidance from a medical physician for specific treatment.

SECTION 5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media includes alcohol-resistant foam, carbon dioxide, dry chemical or water fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

No data is available.

5.3 ADVICE FOR FIREFIGHTERS

Fire-Fighting Equipment

Firefighter should wear normal protective equipment (full bunker gear) and positive-pressure contained breathing apparatus. Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Water runoff can cause environmental damage. Dike and collect water used to fight fires.

Special Fire-Fighting Procedures

Use water spray to cool fire-exposed containers and structures. If a rail or tank truck is involved in a fire, isolate for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel

Wear personal protective equipment (PPE). Eliminate sources of ignition, if safe to do so. Avoid breathing vapors or mist. Evacuate to designated safe areas.

For emergency responders

If possible, move individual to safe area, and treat symptomatically.

6.2 ENVIRONMENTAL PRECAUTIONS

Contain spill, if safe to do so. Prevent from entering sewers or drains.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Use oil absorbent material to soak up product on the ground. Should this product enter sewers or drains, it should be pumped out into an open vessel. The recovered material should be discarded as hazardous waste.

6.4 REFERENCE TO OTHER SECTIONS

If appropriate, refer to SECTION 8 and SECTION 13 for additional information.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING



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Use personal protective equipment (PPE) when handling this product. Smoking, eating and drinking should be prohibited in the application area.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Do not store in open or unlabeled containers. Keep container tightly closed in a dry and well-ventilated place.

7.3 SPECIFIC END USE(S)

For applications requiring one grade and type of fog oil with Military Symbol SGF-2 and NATO Code F-62.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Component	Occupational exposure limits
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH TLV: (United States, 4/2014) TWA = 5 mg/m ³ 8 hours (inhalable fraction)
	AFS 2011:18 (Sweden, 12/2011) TWA = 1 mg/m ³ , 8 hours
	AFS 2011:18 (Sweden, 12/2011) STEL = 3 mg/m ³ , 15 minutes
	NIOSH REL: (United States, 10/2013) TWA = 5 mg/m ³ 10 hours (mist)
	NIOSH REL: (United States, 10/2013) STEL = 10 mg/m ³ 15 minutes (mist)
	OSHA PEL: (United States, 2/2013) TWA = 5 mg/m ³ 8 hours (mist)

Biological exposure limits

None established for any of the disclosed components.

8.2 EXPOSURE CONTROLS

Appropriate engineering controls

Practice general industrial hygiene. Do not eat, drink or smoke near product. Wash hands after handling. Remove clothing and wash separate from other laundry.

Personal protective equipment (PPE)

Eye/face protection

Safety glasses, chemical safety goggles and/or face shields are recommended when handling this product.

Skin protection

For extended handling, wear oil resistant gloves such as neoprene. Nitrile gloves may be appropriate for short handling periods use. Contact a government approved or accredited manufacturer for specific recommendations.

Other protections

Wear protective clothing ensuring minimal skin exposure. Protective clothing should be chemically impervious to oils and other solvents.

Respiratory protection

Use with adequate ventilation. Avoid breathing vapor. If heated and ventilation is inadequate, use NIOSH certified respirator, which will protect against organic vapor.

Environmental exposure controls

Do not allow product to reach ground water, water course, or sewage systems. Stop leaks, if safe to do so. Contain spills with absorbent or adsorbent materials.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear, water-white to straw-yellow liquid
Odor:	Faint
Odor threshold:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Evaporation Rate:	Not determined
Explosive properties:	Not determined
Flammability (solid, gas):	Not determined
Lower flammability limit:	Not determined
Upper flammability limit:	Not determined
Flash point Cleveland Open Cup (ASTM D92):	> 160°C (320°F)
Flash point Pensky-Martens (ASTM D93):	Not determined
Initial boiling point and boiling range:	207 to 750°C (404.6 to 1382°F)
Melting point/freezing point:	< -46°C (-50°F)
Oxidizing properties:	Non-oxidizing
Partition coefficient (n-octanol/water), Log P _{ow} :	> 6
pH:	Not applicable
Relative density (ASTM D1298) 15.6°C/15.6°C (60°F/60°F):	0.9
Solubility in water:	Insoluble
Vapor density:	Not determined
Vapor pressure:	0.016 mmHg at 25°C (77°F)
Viscosity (ASTM D445):	20 mm ² /s (cSt) at 40°C (104°F) 3.6 mm ² /s (cSt) at 100°C (212°F)

9.2 OTHER INFORMATION

No further information is available.

SECTION 10. STABILITY AND REACTIVITY**10.1 REACTIVITY**

Non-reactive in its original state.

10.2 CHEMICAL STABILITY

Stable in its original state.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Does not occur.

10.4 CONDITIONS TO AVOID

Oxidizing materials

10.5 INCOMPATIBLE MATERIALS

Keep away from strong oxidizing or reducing agents, including acids, caustics, chlorites (bleach), halogens and peroxides.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS



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Decomposition of this product under fire conditions may produce carbon oxides and other decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity	Method	Species	Result
Distillates (petroleum), hydrotreated heavy naphthenic	Dermal	Rabbit	LD ₅₀ > 5000 mg/kg bodyweight LC ₅₀ > 5.53 mg/L air
	Inhalation	Rat	
	Oral	Rat	

Aspiration hazard	Test Method	Species	Result
Distillates (petroleum), hydrotreated heavy naphthenic	OECD 403	Rat	Aspiration hazard

Carcinogenicity	Test Method	Species	Result
Distillates (petroleum), hydrotreated heavy naphthenic	Ames test	--	Non-carcinogenic

Eye damage / irritation	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy naphthenic	OECD 405	Rabbit	Not irritating

Germ cell mutagenicity	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy naphthenic	OECD 471	<i>S. typhimurium</i>	Not mutagenic

Reproductive toxicity	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy naphthenic	OECD 414	Rat	NOAEL = 30 mg/kg bw/day
	OECD 421	Rat	NOAEL ≥ 1000 mg/kg bw/day

Respiratory sensitization

No data available

Skin sensitization	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy naphthenic	OECD 406	Guinea pig	Not sensitizing

Skin corrosion/irritation	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy naphthenic	<i>Read across</i>	Rabbit	Not irritating

Specific target organ toxicity – repeated exposure (STOT-RE)	Test Method	Species	Results
Distillates (petroleum), hydrotreated heavy naphthenic	OECD 408	Rat	Oral NOAEL = 125 mg/kg/day Dermal NOAEL < 30 mg/kg bw/day Inhalation NOAEL = 220 mg/m ³ air
	OECD 411	Rat	
	<i>Read across</i>	Rat	

Specific target organ toxicity – single exposure (STOT-SE)

No data available

11.2 OTHER INFORMATION

See SECTION 16 for toxicity references.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Aquatic Toxicity	Test Method	Species	Results
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Distillates (petroleum), hydrotreated heavy naphthenic	OECD 201 OECD 202 OECD 203 OECD 211 QSAR	<i>P. subcapitata</i> <i>D. magna</i> <i>P. promelas</i> <i>D. magna</i> <i>O. mykiss</i>	NOEL ≥ 100 mg/L NOEL ≥ 10,000 mg/L NOEL ≥ 100 mg/L after 96 hours NOEL = 10 mg/L after 21 days NOELR ≥ 1000 mg/L after 14 days
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Terrestrial Toxicity

No data available

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradation	Test Method	Results
Distillates (petroleum), hydrotreated heavy naphthenic	OECD 301F	Inherently biodegradable: 31% biodegradation after 28 days

12.3 BIOACCUMULATIVE POTENTIAL

Bioconcentration Factor (BCF)

No data available

Partition Coefficient n-octanol / water (Log K_{ow})

No data available

12.4 MOBILITY IN SOIL

Soil Mobility

No data available

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

Chemical	Results
Distillates (petroleum), hydrotreated heavy naphthenic	This substance is not PBT and vPvB.

12.6 OTHER ADVERSE EFFECTS

No further information is available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

This unused material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets U.S. EPA (40 CFR Subpart C) criteria for being toxic, corrosive, ignitable, or reactive. This material could also become hazardous waste if it is mixed with or meets a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.

SECTION 14. TRANSPORTATION INFORMATION

United States Department of Transportation (DOT)

Not regulated

Canada Transport - Transportation of Dangerous Goods (TDG)

Not regulated



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International Air Transport Association (IATA)

Not regulated

International Carriage of Dangerous Goods by Inland Waterways (AND)

Not regulated

International Carriage of Dangerous Goods by Rail (RID)

Not regulated

International Carriage of Dangerous Goods by Road (ADR)

Not regulated

International Civil Aviation Organization (ICAO)

Not regulated

International Maritime Dangerous Goods Code (IMDG Code)

Not regulated

SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Australia Inventory (AICS)

All the ingredients are listed.

California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Canadian Domestic Substances List/Non-Domestic Substances List (DSL/NDSL)

All the ingredients are listed.

China Inventory of Existing Chemical Substances (IECSC)

All the ingredients are listed.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Reportable Quantity

This product is not reportable under 40 CFR Part 302.4.

International Agency for Research on Cancer (IARC)

None of the ingredients are listed.

Japan Existing and New Chemical Substances (ENCS)

All the ingredients are listed.

Korean Existing and Evaluated Chemical Substances (KECL)

All the ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All the ingredients are listed.

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355)

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.



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SARA Title III Section 313 (40 CFR Part 372)

This product is not regulated under Section 313 of SARA and 40 CFR Part 372.

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370)

Hazardous categories for this product are:

Acute = Yes Chronic = No Fire = No Pressure = No Reactive = No

United States Toxic Substances Control Act (TSCA)

All the ingredients are listed.

15.2 CHEMICAL SAFETY ASSESSMENT

A Chemical Safety Assessment has not been conducted.

SECTION 16. OTHER INFORMATION

Safety Data Sheet Creation Date: 21 March 2016

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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 PROCESS. 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, 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.

RADCOLUBE® is a registered trademark of Radco Industries, Inc.

Toxicological References

"Distillates (petroleum), hydrotreated heavy naphthenic." *Registration Dossier - ECHA*. European Chemicals Agency, [no date]. Web. 25 Apr. 2017.

Globally Harmonized System of Classification and Labelling of Chemicals: (GHS). 6th ed. New York: United Nations, 2015. Print.

Definitions

ACGIH	American Conference of Governmental Industrial Hygienists
AFS 2011:18	Swedish Work Environment Authority's provisions and general recommendations on occupational exposure limit values
Asp. Tox. 1	See <i>Aspiration hazard, category 1 definition</i> .
Aspiration hazard, category 1	Hydrocarbons with kinematic viscosity ≤ 20.5 mm ² /s are classified by OSHA as an aspiration hazard.
HMIS	Hazardous Materials Identification System
NIOSH	National Institute for Occupational Safety and Health
NOAEL	No observed adverse effect level
NOEL	No observable effect level
OECD	Organisation for Economic Co-operation and Development
OECD 201	OECD Guideline 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test
OECD 202	OECD Guideline 202: Daphnia sp. Acute Immobilisation Test
OECD 203	OECD Guideline 203: Fish, Acute Toxicity Test
OECD 211	OECD Guideline 211: Daphnia magna Reproduction Test
OECD 301F	OECD Guideline 301F: Manometric Respirometry Test
OECD 403	OECD Guideline 403: Acute Inhalation Toxicity
OECD 405	OECD Guideline 405: Acute Eye Irritation/Corrosion Test
OECD 406	OECD Guideline 406: Skin Sensitization Test
OECD 408	OECD Guideline 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents
OECD 411	OECD Guideline 411: Subchronic Dermal Toxicity: 90-day Study
OECD 414	OECD Guideline 414: Prenatal Development Toxicity Study
OECD 421	OECD Guideline 421: Reproduction/Developmental Toxicity Screening Test



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OECD 471	OECD Guideline 471: Bacterial Reverse Mutation Test
QSAR	Quantitative structure–activity relationship model
STEL	Short-term exposure limit
TLV	Threshold limit value
TWA	Time-weighted average