



RADCOLUBE® CLP

Safety Data Sheet

MIL-PRF-63460F TYPE A Standard Cleaner, Lubricant and Preservative for Weapons and Weapons Systems (CLP)

Issue date: 2/17/2015

Revision date: 9/30/2022

Supersedes: 9/29/2022

Version: 8.0

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

SECTION 1: Identification

1.1. Identification

Trade name	RADCOLUBE® CLP
Specification:	MIL-PRF-63460F Type A Standard Cleaner, Lubricant and Preservative for Weapons and Weapons Systems (CLP)
Qualification Number (Date):	AR-16-10 (2016 October 3)
Military Symbol:	CLP
NATO Code:	S-758
National Stock Number(s) (NSN):	9150-01-102-1473 (0.5 OZ Bottle Twist Cap) 9150-01-079-6124 (4 OZ Bottle Twist Cap) 9150-01-054-6453 (Pint Bottle with Sprayer) 9150-01-327-9631 (Liter Bottle with Sprayer) 9150-01-053-6688 (Gallon Jug)

1.2. Recommended use and restrictions on use

Use of the substance/mixture:	This product is for cleaning, lubricating and short-term preservation of small and large caliber military weapons, operating in the temperature range of -51 to 71°C (-60 to 160°F).
Use of the substance/mixture:	Lubricants and additives
Recommended use:	Lubricants, Greases and Release Products

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

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**

Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity – Single exposure, Category 1	H370	Causes damage to organs (Skin) (Dermal).
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 labelling**

Hazard pictograms (GHS US):



Signal word (GHS US):

Danger

Hazard statements (GHS US):

H304 - May be fatal if swallowed and enters airways.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H370 - Causes damage to organs (Skin) (Dermal).

Precautionary statements (GHS US):

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

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

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

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

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

P280 - Wear protective clothing, eye protection.

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

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307+P311 - If exposed: Call a poison center/doctor.

P321 - Specific treatment (see Treat symptomatically on this label).

P331 - Do NOT induce vomiting.

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

P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

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
1-Decene, homopolymer, hydrogenated* (Base Stock)	CAS-No.: Trade Secret	Trade Secret	Asp. Tox. 1, H304
Napthalenesulfonic acid, dinonyl-, calcium salt* (Additive)	CAS-No.: Trade Secret	Trade Secret	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 1, H370
Proprietary Additive #1* (Additive)	CAS-No.: Trade Secret	1 – 5	Skin Sens. 1B, H317
Proprietary additive #2* (Additive)	CAS-No.: Trade Secret	1 – 5	Skin Sens. 1B, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Amido carboxylic acid* (Additive)	CAS-No.: Trade Secret	Trade Secret	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400

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

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

SECTION 4: First-aid measures**4.1. Description of first aid measures**

First-aid measures general:	Call a physician immediately.
First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact:	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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 skin contact:	May cause an allergic skin reaction.
Symptoms/effects after eye contact:	Eye irritation.
Symptoms/effects after ingestion:	Risk of lung oedema.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

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

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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. Do not breathe fume, mist, spray, vapours. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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: Does not require any specific or particular technical measures.

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

Incompatible products: Strong acids. Strong bases.

Maximum storage period: 3 year

RADCOLUBE® CLP

MIL-PRF-63460F TYPE A Standard Cleaner, Lubricant and Preservative for Weapons and Weapons Systems (CLP)

Safety Data Sheet

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

Storage temperature:	≤ 71 °C
Storage area:	Keep container tightly closed.
Special rules on packaging:	correctly labelled.
Packaging materials:	SUITABLE MATERIAL: polyethylene, steel, glass, carbon steel.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

RADCOLUBE® CLP
No additional information available
1-Decene, homopolymer, hydrogenated
No additional information available
Proprietary Additive #1
No additional information available
Proprietary additive #2
No additional information available
Napthalenesulfonic acid, dinonyl-, calcium salt
No additional information available
Amido carboxylic acid
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls:	Ensure good ventilation of the work station.
Environmental exposure controls:	Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
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
Colour:	Amber
Odour:	Almost odourless
Odour threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	≤ -63 Pour point
Boiling point:	No data available
Flash point:	216 °C (ASTM D92)
Relative evaporation rate (butylacetate=1):	No data available
Flammability:	Not applicable.
Vapour pressure:	< 0.001 Pa at 20°C
Relative vapour density at 20 °C:	No data available
Relative density:	0.9 – 0.92
Density:	7.59 lb/gal
Solubility:	Poorly soluble 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:	14.9 mm ² /s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosive limits:	No data available
Explosive properties:	Not classified.
Oxidising properties:	Not classified.

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
Carcinogenicity:	Not classified
Aspiration hazard:	May be fatal if swallowed and enters airways.
Viscosity, kinematic:	14.9 mm ² /s at 40°C (104°F)
Symptoms/effects after skin contact:	May cause an allergic skin reaction.
Symptoms/effects after eye contact:	Eye irritation.
Symptoms/effects after ingestion:	Risk of lung oedema.
STOT-single exposure:	Causes damage to organs (Skin) (Dermal).
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Not classified

1-Decene, homopolymer, hydrogenated

LD50 dermal rat:	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat:	> 5.2 mg/l/4h (OECD 403 method)

Proprietary additive #2

LD50 oral rat:	11.3 g/kg
ATE US (oral):	11300 mg/kg bodyweight

RADCOLUBE® CLP**MIL-PRF-63460F TYPE A Standard Cleaner, Lubricant and Preservative for Weapons and Weapons Systems (CLP)**

Safety Data Sheet

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

Naphthalenesulfonic acid, dinonyl-, calcium salt	
LD50 oral rat:	> 2500 mg/kg
LD50 dermal rabbit:	> 20000 mg/kg bodyweight Animal: rabbit, Guideline: other:FHSLA, CFR. Title 21. para. 191.10 and Appraisal of the Safety of 'Chemicals in Foods, Drugs and Cosmetics, Association of Food and Drug Officials of the U.S.

Amido carboxylic acid	
LD50 oral rat:	> 2000 mg/kg bodyweight (OECD 423 method)
LD50 dermal rat:	> 2000 mg/kg bodyweight (OECD 402 method)
ATE US (gases):	4500 ppmv/4h
ATE US (vapours):	11 mg/l/4h
ATE US (dust,mist):	1.5 mg/l/4h

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Proprietary additive #2	
NOAEL (animal/male, F0/P):	1000 mg/kg
NOAEL (animal/male, F1):	1000 mg/kg

Amido carboxylic acid	
NOAEL (animal/male, F0/P):	1000 mg/kg bodyweight (OECD 422 method)
NOAEL (animal/female, F0/P):	250 mg/kg bodyweight (OECD 422 method)

Naphthalenesulfonic acid, dinonyl-, calcium salt	
NOAEL (oral, rat):	95 mg/kg bodyweight
STOT-single exposure:	Causes damage to organs.

Naphthalenesulfonic acid, dinonyl-, calcium salt	
NOAEL (oral, rat, 90 days):	95 – 298 mg/kg bodyweight (OECD 422 method)

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

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Proprietary additive #2	
LC50 - Fish [1]:	5.5 mg/l 96 Hours
EC50 - Crustacea [2]:	0.315 mg/l 48 Hours

RADCOLUBE® CLP**MIL-PRF-63460F TYPE A Standard Cleaner, Lubricant and Preservative for Weapons and Weapons Systems (CLP)**

Safety Data Sheet

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

Proprietary additive #2	
ErC50 algae:	0.58 mg/l 72 Hours
NOEC (chronic):	> 1000 mg/l 3 Hours
Amido carboxylic acid	
LC50 - Fish [1]:	596 mg/l (Species: Danio rerio (Other Names: Brachydanio rerio))
EC50 - Crustacea [1]:	> 100 mg/l (Species: Daphnia magna)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Proprietary additive #2	
Partition coefficient n-octanol/water (Log Kow):	> 2.47

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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

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

SECTION 14: Transport information

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

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT): Not applicable
 Proper Shipping Name (TDG): Not applicable
 Proper Shipping Name (IMDG): Not applicable
 Proper Shipping Name (IATA): Not applicable

14.3. Transport hazard class(es)**DOT**

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

RADCOLUBE® CLP**MIL-PRF-63460F TYPE A Standard Cleaner, Lubricant and Preservative for Weapons and Weapons Systems (CLP)**

Safety Data Sheet

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

TDG

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

IMDG

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

IATA

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

14.4. Packing group

Packing group (DOT): Not applicable

Packing group (TDG): Not applicable

Packing group (IMDG): Not applicable

Packing group (IATA): Not applicable

14.5. Environmental hazards

Other information: 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**

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
1-Decene, homopolymer, hydrogenated		Present	Active	XU
Proprietary Additive #1		Present	Active	
Proprietary additive #2		Present	Active	

RADCOLUBE® CLP**MIL-PRF-63460F TYPE A Standard Cleaner, Lubricant and Preservative for Weapons and Weapons Systems (CLP)**

Safety Data Sheet

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

Napthalenesulfonic acid, dinonyl-, calcium salt		Present	Active	
Amido carboxylic acid		Present	Active	

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations**CANADA****1-Decene, homopolymer, hydrogenated**

Listed on the Canadian DSL (Domestic Substances List)

Napthalenesulfonic acid, dinonyl-, calcium salt

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations**1-Decene, homopolymer, hydrogenated**

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

Revision date: 09/30/2022

Full text of H-statements	
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects.

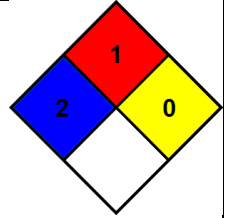
RADCOLUBE® CLP

MIL-PRF-63460F TYPE A Standard Cleaner, Lubricant and Preservative for Weapons and Weapons Systems (CLP)

Safety Data Sheet

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

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 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protection B - Safety glasses, Gloves

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.