

## **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: 8/19/2025 Supersedes: 4/28/2025 Version: 13.0

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

### **SECTION 1: Identification**

#### 1.1. Identification

Trade name RADCOLUBE® CLP Radco Product Code: CLP (16277-A)

Specification: MIL-PRF-63460F Type A Standard Cleaner, Lubricant and Preservative for Weapons and

Weapons Systems (CLP)

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 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

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#### **GHS US classification**

Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation.

Skin sensitization, 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 labeling**

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, vapors.

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.

P308+P311 - If exposed or concerned: Call a doctor.

P331 - Do NOT induce vomiting.

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

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

 ${\tt P362+P364-Take\ off\ contaminated\ clothing\ and\ wash\ it\ before\ reuse.}$ 

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

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## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	CAS-No.	%	GHS US classification
Synthetic Hydrocarbon*	Trade Secret	< 70	Asp. Tox. 1, H304
Napthalenesulfonic acid, dinonyl-, calcium salt*	Trade Secret	1-10	STOT SE 1, H370
Polysulfide*	Trade Secret	1-5	Skin Sens. 1B, H317
Alkyl dithiophosphate*	Trade Secret	1-5	Skin Sens. 1B, H317
			Aquatic Chronic 1, H410
Amido carboxylic acid*	Trade Secret	0.1 – 5	Acute Tox. 4 (Inhalation),
			H332
			Skin Irrit. 2, H315
			Eye Dam. 1, H318

<sup>\*</sup>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 inhalation: None under normal conditions.

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 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.

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Hazardous decomposition products in case Toxic fumes may be released.

of fire:

### 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. 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".

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.

#### 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. Do not breathe

dust/fume/gas/mist/vapors/spray. 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.

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### 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.

Incompatible products: Strong acids. Strong bases.

Maximum storage period: 3 year Storage temperature:  $\leq 71 \,^{\circ}\text{C}$ 

Storage area: Keep container tightly closed.

Special rules on packaging: correctly labelled.

Packaging materials: SUITABLE MATERIAL: polyethylene, steel, glass, carbon steel. Store always product in

container of same material as original container.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### RADCOLUBE® CLP

No additional information available

### Synthetic Hydrocarbon

No additional information available

## **Polysulfide**

No additional information available

## Alkyl dithiophosphate

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

### Personal protective equipment:

Wear recommended personal protective equipment.

### Hand protection:

Protective gloves

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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
Color:	Amber
Odor:	Almost odourless
Odor 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 (butyl acetate=1):	No data available
Flammability:	Not applicable.
Vapor pressure:	< 0.001 Pa at 20°C
Relative vapor 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

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Viscosity, kinematic:	14.9 mm²/s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosion limits:	No data available
Explosive properties:	Not classified.
Oxidizing 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

Not classified
Not classified
Not classified
Not classified
Not classified
May be fatal if swallowed and enters airways.
14.9 mm²/s at 40°C (104°F)
None under normal conditions.
May cause an allergic skin reaction.
Eye irritation.
Risk of lung edema.
Causes damage to organs (Skin) (Dermal).
Not classified

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Reproductive toxicity:	Not classified	
Synthetic Hydrocarbon		
LD50 dermal rat:	> 2000 mg/kg body weight (OECD 402 method)	
LC50 Inhalation - Rat:	> 5.2 mg/l/4h (OECD 403 method)	
Alkyl dithiophosphate		
LD50 oral rat:	11.3 g/kg	
LD50 dermal rabbit:	> 2000 mg/kg body weight (OECD 403 method)	
ATE US (oral):	11300 mg/kg body weight	
Napthalenesulfonic acid, dinonyl-, calc	cium salt	
LD50 oral rat:	> 2500 mg/kg	
LD50 dermal rabbit:	> 20000 mg/kg body weight 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 body weight (OECD 423 method)	
LD50 dermal rat:	> 2000 mg/kg body weight (OECD 402 method)	
ATE US (gases):	4500 ppmV/4h	
ATE US (vapors):	11 mg/l/4h	
ATE US (dust, mist):	1.5 mg/l/4h	
Synthetic Hydrocarbon		
Serious eye damage/irritation:	Causes serious eye irritation.	
Polysulfide		
Serious eye damage/irritation:	Causes serious eye irritation.	
Alkyl dithiophosphate		
Serious eye damage/irritation:	Causes serious eye irritation.	
Napthalenesulfonic acid, dinonyl-, calc	cium salt	
Serious eye damage/irritation:	Causes serious eye irritation.	
Amido carboxylic acid		
Serious eye damage/irritation:	Causes serious eye irritation.	
Synthetic Hydrocarbon		
Respiratory or skin sensitization:	May cause an allergic skin reaction.	

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Polysulfide			
Respiratory or skin sensitization:	May cause an allergic skin reaction.		
Alkyl dithiophosphate			
Respiratory or skin sensitization:	May cause an allergic skin reaction.		
Napthalenesulfonic acid, dinonyl-, calc	Napthalenesulfonic acid, dinonyl-, calcium salt		
Respiratory or skin sensitization:	May cause an allergic skin reaction.		
Amido carboxylic acid			
Respiratory or skin sensitization:	May cause an allergic skin reaction.		
Synthetic Hydrocarbon			
Germ cell mutagenicity:	Not classified		
Polysulfide			
Respiratory or skin sensitization, epicutaneous, occlusive, Guinea pig	Skin sensitization, category 1B (24 - 48 Hours, (OECD 406 method), Literature data)		
Germ cell mutagenicity:	Not classified		
Alkyl dithiophosphate			
Germ cell mutagenicity:	Not classified		
Napthalenesulfonic acid, dinonyl-, calcium salt			
Germ cell mutagenicity:	Not classified		
Amido carboxylic acid			
Germ cell mutagenicity:	Not classified		
Alkyl dithiophosphate			
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 body weight (OECD 422 method)		
NOAEL (animal/female, F0/P):	250 mg/kg body weight (OECD 422 method)		
Napthalenesulfonic acid, dinonyl-, calcium salt			
NOAEL (oral,rat):	95 mg/kg body weight		
STOT-single exposure:	Causes damage to organs (eyes) (Dermal).		

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Alkyl dithiophosphate	
NOAEL (oral,rat,90 days): 1000 mg/kg body weight (OECD 407 method)	
Napthalenesulfonic acid, dinonyl-, calc	ium salt

# **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.

Alkyl dithiophosphate	
LC50 - Fish [1]:	> 100 mg/l Oncorhynchus mykiss (Rainbow trout), 96 Hours
EC50 - Crustacea [1]:	0.315 mg/l Species: Daphnia magna (Water flea)
EC50 - Crustacea [2]:	0.315 mg/l 48 Hours
ErC50 algae:	> 100 mg/l 72 Hours
LOEC (chronic):	> 100 mg/l Species: Daphnia magna (Water flea), 21 days
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

Alkyl dithiophosphate	
Partition coefficient n-octanol/water (Log	6.5
Kow):	

## 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

Regional waste regulation: Disposal must be done according to official regulations.

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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

Disposal must be done according to official regulations.

recommendations:

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

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT):

Proper Shipping Name (TDG):

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

**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):

Packing group (TDG):

Packing group (IMDG):

Packing group (IATA):

Not applicable

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

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#### **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

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**

## **Synthetic Hydrocarbon**

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**

### **Synthetic Hydrocarbon**

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)

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Full text of hazard classes and 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.
H410	Very toxic to aquatic life with long lasting effects

NFPA health

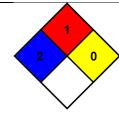
2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual

hazard

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 B - Safety glasses, Gloves

protection

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.

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