RADCOLUBE® CLP SAFETY DATA SHEET

MIL-PRF-63460E LUBRICANT, CLEANER AND PRESERVATIVE FOR WEAPONS AND WEAPONS SYSTEMS

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: RADCOLUBE® CLP

This product meets MIL-PRF-63460E military performance specification.

This lubricant is identified by Military Symbol CLP and North Atlantic Treaty Organization (NATO) Code Number S-758.

ISO 9001:2008 Certification Number: C2015-00068

Recommended Use
This product is for use in 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).

NSN:	9150-01-102-1473	0.5 oz. bottle with twist cap
	9150-01-079-6124	4 oz. bottle with twist cap
	9150-01-054-6453	1 pint bottle with trigger sprayer
	9150-01-327-9631	1 liter bottle with trigger sprayer
	9150-01-053-6688	1 gallon jug

Company Identification
Headquarters and Manufacturing Facility (CAGE Code: 6ZS16)
Radco Industries, Inc.
700 Kingsland Drive
Batavia, IL 60510

Customer information number: 1-630-232-7966

EMERGENCY TELEPHONE NUMBER
Advisory Office in case of poisoning: Chemtrec
Chemtrec (North America): 1-800-424-9300
Chemtrec (International): 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification of mixture:
Acute hazards to the aquatic environment, category 1
Aspiration hazard, Category 1
Serious eye damage/eye irritation, Category 1
Skin corrosion/irritation, Category 2

Hazard Pictogram:

Signal Word: Danger

Hazard Statements
H304: May be fatal if swallowed and enters airways.

H315:	Causes skin irritation.
H318:	Causes serious eye damage
H401:	Toxic to aquatic life

Precautionary Statements:

P260:	Do not breathe dust, fume, gas, mist, vapors, or spray.
P270:	Do not eat, drink or smoke when using this product.
P285:	In case of inadequate ventilation wear respiratory protection.
P301 + P315 +P331:	IF SWALLOWED: Do NOT induce vomiting. Get immediate medical advice/attention.
P305 + P351 + P338 + P311:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Call a POISON CENTER or doctor/physician.
P342 + P340 + P313:	If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
P404:	Store in a closed container.
P501:	Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%Composition	CAS Number
Naphthalenesulfonic acid, dinonyl-, calcium salt	< 5%	57855-77-3
Other, non-hazardous components	Proprietary	Proprietary
Polyalphaolefin	Proprietary	Proprietary
Synthetic ester	Proprietary	Proprietary

4. FIRST-AID MEASURES

Eyes
Immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion
If swallowed, drink plenty of water, DO NOT induce vomiting. Immediately call a doctor.

Inhalation
Move to fresh air. If unconscious place in recovery position and seek medical advice. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. Remove from further exposure. Immediately call a doctor.

Skin
Wash exposed skin with soap and water.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
For small fires use carbon dioxide, dry chemical or foam.
For large fires use alcohol-type foam, universal type foam or water fox.

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.

6. ACCIDENTAL RELEASE MEASURES

Wear protective clothing when taking up spill. Eliminate sources of ignition. This product is insoluble in water and will float on the surface. Prevent from entering sewers or drains. Should this product enter sewers or drains, it should be pumped out into an open vessel.

7. HANDLING AND STORAGE

Handling
Do not breathe vapors/dust. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits
None established.

Eye Protection
Safety glasses, chemical goggles, or face shields recommended to prevent contact.

Hand Protection
Wear clothing and gloves that cannot be penetrated by chemicals or oil.

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.

Other Protection
Do not eat, drink, or smoke when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent, amber liquid
Odor:	Oily, petroleum fragrance
Odor threshold:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Evaporation Rate:	Not determined
Flash point Cleveland Open Cup(ASTM D92):	188°C (370°F)
Flash point Pensky-Martens (ASTM D93):	174°C (345°F)

Flammability (solid, gas):	Non-flammable
Lower flammability limit:	Not determined
Upper flammability limit:	Not determined
Normal Boiling Point:	350°C (662°F)
Melting point/freezing point:	< -62°C
Partition coefficient (n-octanol/water), Log P_{ow}:	Not determined
pH:	Not applicable
Solubility (in water):	< 0.1%
Relative density (ASTM D1298) 15.6°C/15.6°C:	0.91
Vapor density:	Not available
Vapor pressure:	< 0.01 mmHg at 20°C (68°F)
Viscosity (ASTM D445):	2,700 cSt at -40°C (-40°F) 14.5 cSt at 40°C (104°F)

10. STABILITY AND REACTIVITY INFORMATION

Materials to avoid
Exposure to materials which are highly oxidizing should be avoided.

Hazardous polymerization
Does not occur.

Hazardous decomposition products
Incomplete combustion may give various cracked and oxidized hydrocarbons.

Stability
Stable

11. TOXICOLOGICAL INFORMATION

Aspiration toxicity
May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

Eye
This product may serious eye damage.

Skin
This product causes skin irritation.

Carcinogenity
No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, the U.S. Occupational safety And Health Act, or the International Agency on Research on Cancer (IARC).

12. ECOLOGICAL CONSIDERATIONS

This product is toxic to aquatic life based on components.

13. DISPOSAL INFORMATION

Disposal must be in accordance with applicable federal, state, or local regulations.

Do not allow product to reach ground water, water course, or sewage systems.

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 criteria for being toxic, corrosive, ignitable, or reactive according to U.S. EPA definitions (40 CFR Subpart C). This material could also become hazardous waste if it is mixed with or comes into contact with a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove and even a trace of remaining material constitutes as explosive hazard. "Empty" drums should be completely drained, properly bunged, and promptly returned to a drum recycler. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

14. TRANSPORT INFORMATION

U.S. Dept. of Transportation Shipping Name
Not regulated.

Canadian Transportation of Dangerous Goods Shipping Name
Not regulated.

European Rail/Road (ADR/RID) Shipping Name
Not regulated.

Air (ICAO/IATA) Shipping Name
Not regulated.

Sea (IMO/IMDG)
Not regulated.

15. REGULATORY INFORMATION

California (Proposition 65)
This product does not contain any of the substances known to the State of California to cause cancer, birth defects, or reproductive harm.

CERCLA Reportable Quantity
This product is not reportable under 40 CFR Part 302.4.

Environmental Protection Agency
None of the ingredients are listed

National Toxicology Program (NTP)
None of the ingredients are listed.

OSHA Hazard Communication Standard
This material is considered hazardous in accordance with OSHA 29 CFR 1910.1200.

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.

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

Hazardous categories for this product are: Acute= no; Chronic= no; Fire=no; Pressure=no; Reactive=no.

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

U.S. Inventory (TSCA)
Listed on inventory.

Australia Inventory (AICS)
Listed on inventory.

Canada Inventory (DSL)
All of the ingredients are listed.

China (CICS)
None of the ingredients are listed.

EC Inventory (EINECS/ELINCS)
In Compliance

International Agency for Research on Cancer (IARC)
None of the ingredients are listed.

Japan Inventory (MITI)
Listed on inventory.

Korea Inventory (ECL)
Listed on inventory.

16. OTHER INFORMATION

Safety Data Sheet Creation Date: 17 February 2015
Safety Data Sheet Revision Date: 4 October 2016

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