

Remington® Rem® Oil Pro³™ MSR

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Rem® Oil Pro³™ MSR
Recommended Use: Firearm Cleaner and Lubricant (not for incidental food contact or medical purposes)
Distributor: Ammunition Operations LLC
2592 AR Hwy 15N
Lonoke, AR 72086, USA
Telephone: 1-800-243-9700
Emergency Telephone: 1-800-424-9300 (CHEMTREC, 24 hours, Washington, D.C. USA)
Transportation incidents only

2. HAZARDS IDENTIFICATION

Classification: Hazardous to the Aquatic Environment. Category 4



Labeling: Symbol:
Signal Word: Warning

Environmental Hazard statements:
H413 – May cause long lasting harmful effects to aquatic life. P273 – Avoid release to the environment.
P501 – Dispose of contents/containers in accordance with government regulations.
Health Hazard Statements: May be harmful if swallowed
May cause eye irritation
May cause skin irritation

Precautionary Statements:

Use personal protective equipment as required. Wear safety glasses and gloves.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component: Chlorinated Alkenes
CAS #: 1402738-52-6
% by weight: 20 – 30

Component: Amines, C12 – C14-alkyl, C6 – C10-alkyl phosphates
CAS #: 68603-55-4
% by weight: 1 – 5

This product contains no other hazardous ingredients above reportable concentrations.

4. FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention. Obtain medical attention.
Skin Contact: Wash affected area with soap and water. If signs/symptoms persist, get medical attention. No need for first aid is anticipated.
Inhalation: If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.
Ingestion: If swallowed, do not induce vomiting. If irritation or discomfort occurs, obtain medical assistance.

5. FIRE FIGHTING MEASURES

Autoignition Temperature:>200°C
Flash point:>200°C
Flammable Limits (LEL) Not determined
Flammable Limits (UEL) Not determined

Suitable Extinguishing Media: On large fires use dry chemical, foam, or water spray. On small fires use carbon dioxide, dry chemical, or water spray. Water can be used to cool fire exposed containers.

Unsuitable Extinguishing Media: None.

Specific hazards in case of fire: Decomposes on heating and produces incompletely burned carbon compounds. Avoid reaction with oxidizers. At extreme elevated temperatures corrosive and other toxic vapors can be generated.

Special protective equipment and precautions for fire fighters:

No acute hazard. Move container from fire area, if possible. Avoid breathing vapors or dusts. Keep upwind. Use full firefighting gear (bunker gear). Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive pressure mode in combination with a separate escape air supply. Use any self-contained breathing apparatus with a full-face piece.

Alert fire brigade and indicate hazard location. Wear breathing apparatus plus protective clothing. Cool fire exposed containers with water spray from a protected location. Do not approach containers suspected to be hot. If safe to do so, remove containers from path of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep unnecessary personnel away. Ensure adequate ventilation. Use personal protective equipment. Avoid touching spilled material.

Method for Containment: Eliminate all ignition sources. Stop leak if you can do so without risk. Dike all spilled material where this is possible. Prevent this material from contaminating soil or from entering sewage and drainage systems that lead to waterways.

Large spills: Stop the flow of material if safe to do so. Dike the spilled material if possible. Dike far ahead of liquid spill for later disposal. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb with earth sand or other non-combustible material and transfer to containers for later disposal. Following product recovery, use oil absorbent to collect any residual material.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not contaminate water.

Other information: Never return spills in original containers for reuse. For water disposal see Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin, inhalation of mist, or ingestion. See section 8 for personal protection equipment. Practice good personal hygiene to prevent accidental ingestion after handling. Properly dispose of clothing that cannot be decontaminated. Wash hands thoroughly before using tobacco or other products intended to be burned and inhaled.

Conditions for safe storage, including any incompatibilities: Store away from oxidizing materials. Store product in a closed container located in a dry area. Do not store in open, inadequate, or mislabeled packaging. Check that containers are clearly labeled. Use metal cans, metal drums, plastic, or lined fiber containers. Keep away from heat and flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Under most handling conditions, this product will not generate mist or dust.

Engineering Controls: In most conditions, no special local ventilation is needed. General ventilation recommended. If the product is atomized ventilation should be used.

Personal Protective Equipment (PPE):

Eyes: Safety glasses recommended.

Skin: Impermeable gloves should be worn. Petroleum resistant elastomers are recommended.

Inhalation: No respiratory protection required under most conditions. If concentrations exceed

exposure limits, approved respiratory equipment must be used.

9. CHEMICAL AND PHYSICAL PROPERTIES

Physical state: Liquid
Color: Amber to dark brown
Odor: Mild petroleum
Odor Threshold: Not available
Density: 1.08 g/cm³
pH Value: Not applicable
Melting Point: Not determined
Freezing Point: Not determined
Initial Boiling Point: >200°C
Flash Point: >200°C COC
Evaporation rate: Not available
Flammability (solid, gas): Not applicable
Explosion limits: Not available
Vapor pressure: Negligible at 20°C
Vapor density: Not available
Solubility: Insoluble in water at 20°C
Partition coefficient: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Begins to oxidize at a slow rate at 125°C

10. STABILITY AND REACTIVITY

Chemical stability: Stable under ambient temperatures and pressures
Possibility of hazardous reactions: Can react with strong oxidizers. Other hazardous reactions have not been identified. Otherwise will not react or polymerize.
Conditions to avoid: No specific conditions to avoid have been identified.
Materials to avoid: Oxidizers.
Hazardous decomposition products: Decomposes on heating and produces incompletely burned carbon compounds. At extreme elevated temperatures corrosive and other toxic vapors can be generated.

11. TOXICOLOGICAL INFORMATION

General information Not available.
Information on likely routes of exposure
Ingestion May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration.
Inhalation May be harmful if inhaled. However, this product does not currently meet the criteria for classification.
Skin contact Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact May be irritating to eyes. Symptoms Not available.
Information on toxicological effects
Acute toxicity Not classified.
Skin corrosion/irritation Not classified. May cause defatting of the skin but is neither an irritant nor a sensitizer.
Serious eye damage/eye irritation
Not classified.
Respiratory sensitization Not classified. Skin sensitization Not classified.
Germ cell mutagenicity Non-mutagenic based on Modified Ames Assay.
Carcinogenicity Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound
(PAC) using IP 346.
Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Aspiration hazard Not classified.
 Mixture versus substance information: Not available
 Other information Not available.

12. ECOLOGICAL INFORMATION

There is no specific ecological information for the two LCCO products. Information provided below is representative of the carbon chain range and percent of chlorination in the product.

Ecotoxicity:	Ecologically significant impacts may have potential to occur if released to water and sediment. Although there is no established acute aquatic toxicity for this product, they may cause long-lasting harmful effects to aquatic life due to studies that they do not readily biodegrade and may therefore persist in the environment.
Aquatic Toxicity:	<ul style="list-style-type: none"> • C22-26, 42% wt. Cl, 96h LC50 >5,000 mg/l, Bleak fish species, No effects seen at solubility. • C18-26, 49% wt. Cl, 91-day LCO >3,400 mg/kg. Bleak, No effects seen at solubility. • C>20, 48-54% wt. Cl, 96h LC50 >300 mg/l, Bluegill Sunfish, No effects seen at solubility. • C20-30, 42% wt. Cl, 96h LC50 >770 mg/l Rainbow Trout, No effects seen at solubility. • C>20, 43% wt. Cl, No adverse effects seen over 48 hours. daphnia magna (does not meet Marine toxicity criteria)
Terrestrial Toxicity:	No data available.
Persistence and Degradability: (Environmental Fate)	<ul style="list-style-type: none"> • Unlikely to be readily or inherently biodegradable. Assumed to be potentially persistent, as a result. • No data available on degradation in soil or fate in atmosphere. • Atmospheric half-life is estimated 20 to 25 hours.
Bioaccumulative Potential:	Not considered to be bioaccumulative.
Mobility in Soil:	No data available
Other Adverse Effects:	Ozone Depletion Potential — not determined
Partition Coefficient (n-octanol/water)	Log K _{ow} = 10.3 is representative value K _{oc} = 2.77x10 ⁸ l/kg is representative value
BCF:	BCF for LCCPs is considered to be <2,000 l/kg. Thus it is extrapolated that LCCOs are unlikely to meet the bioaccumulative criteria as well.

13. DISPOSAL PROCEDURES

Waste Codes	Waste codes should be assigned by the user based on the application for which the product was used.
Disposal Instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
Waste from Residues and Unused Products	Dispose of in accordance with local regulations.
Contaminated Packaging	Do not re-use empty containers for other substances. Empty containers should be taken to an approved waste handling site for recycling or disposal or returned to the manufacturer.

14. TRANSPORT INFORMATION

Class or Type: US DOT, IMO, ADR, RID, ADN, IMDG, and IATA: Non-hazardous

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the mixture:

Other Information:

U. S. Regulatory information

- TSCA Inventory Status: Y
- TSCA 12 (b) Export Notification:..... Not listed
- CERCLA Section 103 (40 CFR 302.4): N
- SARA Section 302 (40 CFR 355.30): N
- SARA Section 304 (40 CFR 355.40): N
- SARA Section 313 (40 CFR 372.65): N
- OSHA Process Safety (29 CFR 1910.119):..... N
- SARA Hazard Categories, SARA Sections 311/312 (40 CFR 370.21) –
 - Acute Hazard:..... N
 - Chronic Hazard:..... N
 - Fire Hazard: N
 - Reactivity Hazard: N
 - Sudden Release Hazard: N

State Regulations: Not on California Proposition 65 list. Does not contain any contaminants or by-products known to the State of California to cause cancer or reproductive toxicity.

Note – There are no known safety, health or environmental restrictions or prohibitions in any country where this product is produced, imported, or marketed.

Chemical Inventories:

DSL (Canada)	All ingredients listed or exempt
EINECS (European Union)	All ingredients listed or exempt
ENCS/ISHL (Japan)	All ingredients listed or exempt
IECSC (Peoples Republic of China)	All ingredients listed or exempt
TSCA (United States of America)	All ingredients listed or exempt

16. OTHER INFORMATION

NFPA Hazard Classification:

- Health: 1
- Flammability: 1
- Reactivity: 0
- Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency personnel to address the hazards that are presented by short-term, acute exposure to material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification:

- Health: 1
- Flammability: 1
- Reactivity: 0
- Protection: B (See PPE section)

Hazardous Material Identification System (HMIS) hazard ratings are designed to inform employees of chemical hazards in the workplace. The ratings are based on inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations.

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

Prepared By: PolySi® Technologies, Inc.



SAFETY DATA SHEET

Remington® Rem® Oil Pro³™ MSR

Issued 05/19/16
Revision 2 03/24/2021

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