

Materials –Montana X-treme Products: Cowboy Blend, Bore Conditioner, and**Gun Oil**

MSDS Date: 4/18/2008

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1. PRODUCT AND COMPANY IDENTIFICATION

Names 1) Montana X-treme Cowboy Blend
 2) Montana X-treme Bore Conditioner
 3) Montana X-treme Gun Oil

Trade Names and Synonyms: Cowboy Blend - Lead and Powder Solvent
Bore Conditioner –Accuracy Oil for Gun Barrel Bores
Gun Oil – Specially Formulated Lubricant for Firearms

Distributed By: WESTERN POWDERS, INC.
 P.O. Box 158
 Miles City, Montana 59301
 Telephone: (406) 234-0422
 Toll Free: (800) 497-1007

Manufactured By: Refer to Supplier

TRANSPORTATION EMERGENCIES – CHEMTREC – 1-800-424-9300

Product Description/Uses - Consumer Products, Proprietary liquid mixtures of aromatic hydrocarbon oils, mineral oils and specialized active cleaning solvents. Packaged only in 4oz and 16 oz bottles, these specialized gun care products are intended solely for use by adult persons experienced in the cleaning and maintenance of firearms.

2. HAZARD IDENTIFICATION**EMERGENCY OVERVIEW**

Appearance: Clear liquids, Color: Cowboy – light yellow; Bore Conditioner. – pale red; Gun Oil – pale yellow.

POISON - DANGER!

May be fatal if swallowed or inhaled. Ingestion hazard: If liquid material enters lungs, it can cause severe damage.

If material is swallowed, call physician immediately. Do not induce vomiting. Inhalation or ingestion may affect the central nervous system, causing dizziness, headache or nausea.

May cause eye irritation. May cause drying or irritation of skin.

Warning! Combustible liquid and vapor.

Spills may create a slipping hazard.

OSHA REGULATORY STATUS - These products may be considered to be hazardous chemicals under OSHA Hazard Communication Standard 29 CFR 1910.1200

Applicable OSHA Classifications –Toxic Combustible Carcinogenic Irritant

POTENTIAL HEALTH EFFECTS –

Inhalation - Breathing of vapor or mist is possible. Breathing these materials may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits.

Eyes - Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin - May cause mild skin irritation. Symptoms may include redness and burning of skin. Passage of these materials into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

Ingestion – Toxic. Swallowing these materials may be harmful or fatal. These materials are low to moderately toxic. May cause headache, dizziness and gastrointestinal distress. These materials can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Symptoms of Exposure - Signs and symptoms of exposure to these materials through breathing, swallowing, and/or passage of the material through the skin may include:, sweating, fever, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), lung irritation, central nervous system depression

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(dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), pain in the abdomen, frequent or painful urination, confusion, blood abnormalities (breakage of red blood cells), kidney damage, lung damage, respiratory failure.

Carcinogenic Potential – A minor component of these mixtures, Naphthalene, is listed as carcinogenic by IARC (International Agency for Research on Cancer) and the National Toxicology Program (NTP) 11th Report..

Routes of Exposure - Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

POTENTIAL ENVIRONMENTAL EFFECTS – Components of these mixtures are toxic or harmful to aquatic organisms.

3. COMPOSITION / INFORMATION ON INGREDIENTS
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COMPONENT	CAS #	wt. %	Wt. %	Wt. %
		Cowboy Blend	Bore Conditioner	Gun Oil
White Mineral Oil	8042-47-5	<25	<60	<80
Glycol Ether (Generic Name)		<15	<15	<10
Aromatic Petroleum Distillate		<60	<30	<10
Oleic Acid	112-80-1	<10	0	0
Naphthalene	91-20-3	<5	<2	<1
Pseudocumene	95-63-6	<2	<1	<1
Silicone oil		0	0	<10

4. FIRST AID MEASURES

Eyes - If material gets into the eyes, check for contact lenses and, if present and readily possible, carefully remove.

Immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin – Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists. Thoroughly clean contaminated clothing before reuse.

If material is injected under the skin, seek medical attention immediately.

Ingestion - Seek medical attention immediately. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. Do not leave victim unattended.

Inhalation - If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention, keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to Physician- (drawn from component MSDS documents)

1. Ingestion: These materials are an aspiration and chemical pneumonitis hazard. Potential danger from aspiration must be weighed against possible oral and internal toxicity (from glycol ether, petroleum distillates components) content of mixture when deciding whether to induce vomiting. Inhalation or ingestion of high levels of these materials (or a component) may cause a hemolytic reaction. Complications of acute intravascular hemolysis include anemia, leukocytosis, fever, hemoglobinuria, jaundice, renal insufficiency, and sometimes disturbances in liver function.

2. Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to these materials: lung (for example, asthma-like conditions), liver, kidney.

3. Skin: In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.

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5. FIRE FIGHTING MEASURES**NFPA RATING** Combustible Material. Estimated (based on components ratings) mixture NFPA rating 2 -2 -0**FLASH POINT:** Cowboy Blend – 155°F Bore Conditioner – 157°F Gun Oil – 167°F P-M Closed Cup**EXPLOSIVE LIMITS:** Not determined for mixture. Glycol ether has flammable limits of 1.1(V) to 10.6%(V)**AUTOIGNITION TEMPERATURE:** Not determined for mixture.**EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide**PERSONAL PROTECTION FOR FIREFIGHTING**

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors from heating of these materials are heavier than air.**HAZARDOUS PRODUCTS OF COMBUSTION.** Combustion products vary depending on fire conditions and other combustibles present in the fire. Products may be mixture components, carbon dioxide, carbon monoxide, hydrogen, nitrogen oxides and various hydrocarbons.**6. ACCIDENTAL RELEASE MEASURES****SPILL PROCEDURES:****Because of small package size and typical limited quantity of material expected to be in places of use, spills will likely be small in size.****Small Spill** - Absorb liquid on vermiculite, floor absorbent or other absorbent material.**Large Spill** - Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading-. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to tight-fitting containers for disposal under applicable local, state and federal hazardous waste disposal regulations..**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THESE MATERIALS. THE USER HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.****7. HANDLING AND STORAGE****HANDLING AND STORAGE PRECAUTIONS:**

- Containers of these materials may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.
- Keep container tightly closed when not in use. Under oxidation conditions, peroxides may be formed in glycol ether component of these mixtures. If they become concentrated, these peroxides may present an explosion hazard. Do not use pressure or heating to empty container. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.
- Keep away from heat, sparks, and flames. Store in a cool, dry, well ventilated place away from incompatible materials. Vent container frequently and more often in warm weather to relieve pressure. Avoid storing product in direct sunlight for extended periods of time. Storage is preferably at temperature of 70°F or lower.
- **KEEP THESE PRODUCTS OUT OF THE REACH OF CHILDREN AT ALL TIMES**

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ENGINEERING CONTROLS:

Adequate ventilation should be provided in work areas and in storage spaces to keep component vapor concentrations below acceptable exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

ESTABLISHED EXPOSURE LIMITS

COMPONENT	OSHA (PEL)	ACGIH (TLV)	NIOSH IDHL
White Mineral Oil	5mg/m ³ – oil mist - TWA	5mg/m ³ – oil mist – TWA 10 mg/m ³ oil mist - STEL	2500 mg/m ³ – Mineral oil mist
Glycol ether	50 ppm – TWA (skin) 25 ppm – VPEL – TWA (skin)	20 ppm - TWA	700 ppm
Aromatic Petroleum distillates	5mg/m ³ – oil mist – TWA	5mg/m ³ – oil mist – TWA	1100 ppm – pet. dist.
Oleic Acid	None established		
Naphthalene	10 ppm	10 ppm TWA 15 ppm - STEL	250 ppm
Pseudocumene	25 ppm - TWA	25 ppm - TWA	
Silicone oil	None established		

PERSONAL PROTECTIVE EQUIPMENT

Safety glasses or goggles with side shields. To prevent repeated or prolonged skin contact, wear impervious clothing and boots. Provide respiratory protection if Section 8 Exposure Limits above are exceeded.

Eye Protection- Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses.

Hand Protection - Wear resistant gloves such as: natural rubber, neoprene, nitrile rubber.

Respiratory Protection - If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines above), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

ENGINEERING CONTROLS - Provide sufficient natural or mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquids,. Color: Cowboy Blend – light yellow; Bore Conditioner. – pale red; Gun Oil – pale yellow.
Odor	Oil-like
Odor threshold	Not available
Physical state	Liquid
pH 25 Deg. C	Not available.
Boiling Point	Not determined for mixtures. Components have BP _n >300°F
Freezing Point	<32°F
Initial boiling point	Not available.
Boiling range	Not available
Flash point	Cowboy Blend – 155°F Bore Conditioner – 157°F Gun Oil – 167°F P-M Closed Cup
Evaporation rate	Not available
Flammability/Explosive Limits	Not determined for mixture. Glycol ether component has Explosive limits of 1.1%(V) – 10.6%(V)

Vapor Pressure 25 Deg. C	all components have vapor pressure of <5mm Hg @ 68°F
Vapor Density	components have vapor densities greater than air
Density – g/cc - 65°F	Cowboy Blend – 0.88, Bore Cond. – 0.87, Gun Oil – 0.92
Bulk Density - #/gal	Cowboy Blend – 7.4, Bore Cond. – 7.2, Gun Oil - 7.7
Solubility in Water	Low, glycol ether component miscible with water
Partition coefficient/ Oil/Water distribution	Not available
Autoignition/Decomposition Temperature	Not available.
Volatiles, Percent By Volume	~ 90%

10. STABILITY AND REACTIVITY**INSTABILITY:** Stable**INCOMPATIBILITY:** Heat, salts of strong bases, strong acids, strong alkalis, strong oxidizing agents, aluminum,.**DECOMPOSITION PRODUCTS:** Hazardous byproducts of burning or thermal decomposition may include mixture components, carbon dioxide, carbon monoxide, ammonia, hydrogen, nitrogen oxides. and various hydrocarbons**HAZARDOUS POLYMERIZATION:** Will not occur.**OTHER CONDITIONS TO AVOID** Direct sunlight, open containers, temperatures of use or storage above moderate (circa 70°F) room temperature.

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11. TOXICOLOGICAL INFORMATION

ROUTES OF ABSORPTION: Inhalation Skin Ingestion Eye Contact

TOXICITY DATA: Calculated for Mixtures from following component toxicological data.

Component	LD ₅₀ – Acute Oral	LD ₅₀ – Acute Dermal	LC ₅₀ – Acute Inhalation
White Mineral Oil	: >5000 mg/kg [Rat].	: >2000 mg/kg [Rabbit].	
Aromatic Petroleum Distillate	3000mg/kg [Rat]	3000 mg/kg – (Rabbit)	3800mg/m ³ – 4hr - (Rat)
Glycol ether	1746 mg/kg BWT	680 mg/kg BWT (Rabbit)	450ppm (female) -4 hrs - (Rat) 486 mg/kg (male) - 4 hrs (Rat)
Naphthalene	490 mg/kg – (Rat)	20,000mg/kg – (Rabbit)	
Pseudocumene	6g/kg – (Rat)		18g/m ³ -4 hr
Oleic acid	25000 mg/kg [Rat].		
Silicone oil	No information available		
Mixture - calculated Per 49CFR173,133	Cowboy Blend – 2616 mg/kg Bore Conditioner – 3150 mg/kg Gun Oil – 4378 mg/kg	Not determined,	Cowboy Blend – 4454 ml/cu. m. Bore Conditioner – 4157 ml/cu m. Gun Oil - >12,000 ml/cu. m.

Note – LC50 inhalation calculation for the mixtures used wt. % rather than mol fraction – since all mol. weights not available.

Carcinogenicity: These product mixtures have not been tested for carcinogenicity. Mixture component naphthalene is listed as carcinogenic by IARC and by NTP (11th Report). Glycol ether has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY - Components of these products known to be toxic or harmful to aquatic organisms:
glycol ether, mineral oil (coating action), petroleum distillates

GENERAL - Due care should be taken to avoid accidental releases of these products to aquatic or terrestrial systems.

13. DISPOSAL CONSIDERATIONS**WASTE DISPOSAL:**

Review state, local, and federal regulations for proper disposal mechanisms.

Used material is a regulated waste. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

14. TRANSPORT INFORMATION

These products, as supplied, are not regulated as a hazardous material for transportation by any mode, under U.S. DOT, IATA and IMDG codes

Transportation Classifications above supplied by ICC The Compliance Center, Inc. , Niagara Falls NY

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15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) : all components of these products are listed in the TSCA Inventory.

SARA Title III, Sections 311/312 : Hazard Categories per 40 CFR 370.21 :

Acute (health) - Yes

Chronic (health) – Yes

Fire - Yes

Reactive (physical) - No

Sudden Release (physical) – No

CERCLA Sections 102a/103 – Hazardous Substances – RQ: naphthalene (100#)

SARA Title III, Section 313 covered components: glycol ether, naphthalene, pseudocumene

California Proposition 65 - These products contains a chemical(s) known in the State of California to cause cancer, birth defects, or other reproductive harm.

16. OTHER INFORMATION

Revised: **4/18/2008** by Western Powders, Inc.. Compiled from component MSDS documents dated 10/18/2007, 1/24/2008, 1/24/2008, 1/25/2008; 5/1/2002 and from NIOSH International Safety Cards.
Transportation Classifications by ICC The Compliance Center, Inc.

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