

# MATERIAL SAFETY DATA SHEET

08/10/2009

MILITEC-1®

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** MILITEC-1®  
**CAS-No.:** Mixture

**MANUFACTURER:** Militec, Inc.  
**ADDRESS:** 11828 Pika Drive, Waldorf, MD 20602

**EMERGENCY PHONE:** 301-893-3910  
**FAX PHONE:** 301-893-8354  
**E-MAIL:** militec@militec-1.com

**PRODUCT USE:** Lubricant for metal.

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**INGREDIENT:** The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

**SECTION 2 NOTES:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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## SECTION 3: HAZARDS IDENTIFICATION

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**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM:** Health: 1 Flammability: 0 Reactivity: 0 PPE: B

**EMERGENCY OVERVIEW:** May cause eye or skin irritation with susceptible persons. Inhalation of vapor or mist may cause irritation. May be harmful if swallowed. Irritating fumes and gases may be released upon thermal processing or during combustion. Prolonged or repeated exposure increases the risk. May cause long-term adverse effects in the aquatic environment.

### POTENTIAL SHORT TERM HEALTH EFFECTS

**EYES:** Contact with eyes may cause irritation.

**SKIN:** Prolonged and/or repeated skin contact may result in mild irritation or redness.

**INGESTION:** Do not ingest. May be harmful if swallowed.

**INHALATION:** Avoid breathing vapors or mists of this product. May cause irritation of respiratory tract.

**ACUTE HEALTH HAZARDS:** Not established.

**CHRONIC HEALTH HAZARDS:** Not established.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Repeated or prolonged exposure may cause irritation of eyes and skin. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Potential environmental effects:** May cause long-term adverse effects in the aquatic environment.

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## SECTION 4: FIRST AID MEASURES

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**GENERAL ADVICE:** If you feel unwell, seek medical advice (show the label where possible).

**EYES:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If ingestion of a large amount does occur, seek medical attention.

**INHALATION:** Move to fresh air. Get medical attention, if needed.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Treat symptomatically.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLASH POINT:** ASTM D-92 424°F (218 °C) Cleveland Open Cup

**AUTOIGNITION TEMPERATURE:** ASTM D-2155 694 °F (368 °C)

**IGNITION DELAY TIME:** 3.5 seconds

**BAROMETRIC PRESSURE:** 762 mm Hg

**FLAMMABILITY CLASS:** Combustible IIIB

**GENERAL FIRE HAZARDS:** Fire and explosion hazards are moderate when this product is exposed to heat or flame.

**SUITABLE EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide, water fog.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should wear full protective gear. Use water spray to cool unopened containers. Move containers from fire area if you can do it without risk.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not established.

**HAZARDOUS COMBUSTION PRODUCTS:** Irritating and toxic gases or fumes may be released during a fire.

**SPECIFIC HAZARDS:** Irritating and toxic gases or fumes may be released during a fire.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**EVACUATION PROCEDURES:** Keep unnecessary personnel away. Isolate area. Ventilate closed spaces before entering.

**CONTAINMENT PROCEDURES:** Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Stop leak if you can do so without risk. Stop the flow of material, if this is without risk. Dike the spilled material. Keep unnecessary personnel away.

**PERSONAL PRECAUTIONS:** Use personal protective equipment. Ensure adequate ventilation. Do not touch or walk through spilled material. Keep unnecessary personnel away.

**ENVIRONMENTAL PRECAUTIONS:** Prevent further leakage if safe to do so. Runoff from fire control or dilution water may cause pollution.

**METHODS FOR CLEANING UP:** Wear appropriate protective equipment and clothing during clean-up. Dike far ahead of liquid spill for later disposal. Prevent product from entering drains. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING:** Handle and open container with care. Do not handle or store near an open flame, heat or other sources of ignition. Avoid prolonged or repeated skin contact with this material. Do not breathe vapors or spray mist. Wash hands after handling and before eating.

**STORAGE:** Use care in handling/storage. Keep away from heat, sparks, and flame. Avoid eye and skin contact. Store in a cool dry place. Keep container closed when not in use.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required. If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear appropriate chemical resistant gloves. Normal work clothing (long sleeved shirts and long pants) is recommended. Wear safety glasses with side shields. If splashes are likely to occur, wear: face-shield.

**WORK HYGIENIC PRACTICES:** Handle in accordance with good industrial hygiene and safety practice.

**EXPOSURE LIMITS:** Exposure Limits for this product have not been established. Avoid repeated or prolonged exposure to vapor or mist without appropriate respiratory protection.

**ENGINEERING MEASURES TO REDUCE EXPOSURE:** Ventilation should effectively remove and prevent buildup of any vapor/mist/fume/dust generated from the handling of this product.

**HYGIENE MEASURES:** Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**FORM:** Liquid

**COLOR:** ASTM D-1500 3.5 Amber

**APPEARANCE:** Clear

**ODOR:** Mild

**Oxidizing Properties:** None

**BOILING POINT:** ASTM D-1120 290°C (554°F)

**SPECIFIC GRAVITY:** ASTM D-1122 1.0875 @ 60°/60 °F

**ACID NUMBER:** ASTM D-664-04 2.16mg KOH, g

**EVAPORATION RATE:** Negligible Loss @ 70 °F

**VAPOR DENSITY:** No Vapor Generated @ 100 °F

**KINEMATIC VISCOSITY:** ASTM D-445 5.24 cSt. (43.4 SUS) @ 210 °F

**KINEMATIC VISCOSITY:** ASTN D-445 37.25 cSt. (174.2 SUS) @ 100 °F

**KINEMATIC VISCOSITY:** ASTM D-445 96.845 cSt. (NA) @ 40 °F

**CLOUD POINT:** ASTM D-2500 No cloud point @ -60 °C

**FIRE POINT:** ASTM D-92 Cleveland Open Cup 482 °F (250°C)

**SOLUBILITY (H2O):** <1

**POUR POINT:** ASTM D-97 -51 °C

**WEIGHT:** 9.26 lbs per gallon.

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable at normal conditions.

**CONDITIONS TO AVOID (STABILITY):** High temperatures.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon Oxides, Hydrogen chloride gas. Thermal decomposition can lead to release of irritating gases and vapors.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY:** This product may react with strong oxidizing agents. reducing agents.

**MATERIALS TO AVOID:** Strong oxidizing agents, reducing agents.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**ACUTE TOXICITY:** Incomplete toxicological data are available for this product.

**LOCAL EFFECTS:** May cause eye or skin irritation with susceptible persons. Inhalation of vapors may cause irritation of the respiratory system in very susceptible persons.

**FURTHER INFORMATION:** This product has no known adverse effect on human health.

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOTOXICITY:** No information on ecology is available.

**ENVIRONMENTAL EFFECTS:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**AQUATIC TOXICITY:** May cause long-term adverse effects in the aquatic environment.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** 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.

**WASTE FROM RESIDUES / UNUSED PRODUCTS:** Dispose of in accordance with local regulations.

**CONTAMINATED PACKAGING:** Do not re-use empty containers.

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## SECTION 14: TRANSPORT INFORMATION

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**DOT CLASSIFICATION:** Not regulated as dangerous goods.

**TDG CLASSIFICATION:** Not regulated as dangerous goods.

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## SECTION 15: REGULATORY INFORMATION

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**U.S. FEDERAL REGULATIONS:** All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** Not Listed

**311/312 HAZARD CATEGORIES:** No Hazard

**313 REPORTABLE INGREDIENTS:** Not Listed.

**STATE REGULATIONS:** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**INTERNATIONAL REGULATIONS:** The product does not need to be labeled in accordance with EC directives or respective national laws.

**CANADIAN REGULATIONS:** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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## SECTION 16: OTHER INFORMATION

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**DISCLAIMER:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the data of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as guidance for safe handling, use processing, storage, transportation, disposal and release.

**Recommended use:** Lubricant for metal.