



SAFETY DATA SHEET

Product: MARC 100 PEN-A-LUBE

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 100 PEN-A-LUBE**

SDS DATE: 01/08/2021

SUPPLIER: Mid-American Research Chemical Corp.

ADDRESS: P. O. Box 927 • Columbus, NE 68602-0927

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E-MAIL: marc1@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Penetrating Lubricant.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Dissolved Gas; Skin Irritant: Category 2; Eye Irritant: Category 2A; Specific Target Organ Toxicity (Single Exposure): Category 3; Carcinogenicity: Category 1B; Germ Cell Mutagenicity: Category 2; Skin Sensitization: Category 1; Aspiration Hazard: Category 1.



HAZARD STATEMENT(S): DANGER: Contains gas under pressure; May explode if heated.

Causes skin and serious eye irritation. May cause drowsiness and dizziness. May cause cancer. Suspected of causing genetic defects. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. This product contains the following percentage of chemicals of unknown toxicity: 0%. **PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, and eye/face protection. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Contaminated work clothing must not be allowed out of the workplace. If in eyes: 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. Avoid breathing dust/fume/gas/mist/vapor/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice/attention. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Store in a well-ventilated place. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Dispose of contents/container in accordance with local, state, and federal law.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>WT. %</u>
Carbon Dioxide	124-38-9	1% - 5%
Trichloroethylene	79-01-6	5% - 15%
Tetrachloroethylene	127-18-4	30% - 60%
Petroleum Distillates, Hydrotreated Light	64742-47-8	10% - 20%
White Mineral Oil	8042-47-5	5% - 10%

Specific percentages claimed as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice/attention immediately.

SKIN: Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

INGESTION: Rinse mouth with water. **DO NOT INDUCE VOMITING** unless directed by medical authority. Immediately call a POISON CENTER/doctor.

INHALATION: Move to fresh air and keep comfortable for breathing. If not breathing administer artificial respiration. If breathing is difficult give oxygen.

ACUTE HEALTH HAZARDS--Inhalation: dizziness, drowsiness, weakness, and fatigue. Eye: Stinging, tearing, redness. Oral: Vomiting, discomfort, diarrhea. Skin: Prolonged or repeated contact may dry skin.

CHRONIC HEALTH HAZARDS: Possible cancer-causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

NOTES TO PHYSICIAN: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.



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SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use appropriate media for surrounding fire. **UNSUITABLE EXTINGUISHING MEDIA:** N/A.
SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and NIOSH approved SCBA with full facepiece operated in positive pressure or pressure demand. Use water mist to keep material cool in fire situations.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, chlorine, hydrogen chloride and phosgene.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment. **SPILL:** Use absorbent on spill, sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material. **WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. **RCRA STATUS:** Waste solvent likely considered F002, hazardous halogenated solvents, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use. Store locked up. **OTHER PRECAUTIONS:** Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product. Keep out of the reach of children. **INCOMPATIBILITY:** Strong acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers, and coatings.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Carbon Dioxide	5000 ppm	5000 ppm
Trichloroethylene	10 ppm	25 ppm
Tetrachloroethylene	100 ppm	25 ppm
Petroleum Distillates, Hydrotreated, Light	500 ppm	500 ppm
White Mineral Oil	5000 ppm	5000 ppm

ENGINEERING CONTROLS/VENTILATION: Use only outdoors or in a well-ventilated area. **RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved organic vapor respiratory protection if used in confined, poorly ventilated areas. **PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses, gloves, and synthetic apron. **ADDITIONAL MEASURES:** Wash hands thoroughly after handling. Do not breathe vapors. Do not eat, drink, or smoke while using product. Get medical attention if you feel unwell. If exposed or concerned: Get medical advice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless to slight tint spray
ODOR: Chlorinated solvent
BOILING POINT: N/D
FREEZING POINT: N/D
FLASH POINT(METHOD USED:TCC): N/D
FLAMMABILITY: Not considered a flammable/extremely flammable aerosol by OSHA (29CFR 1910.1200)
AUTO-IGNITION TEMPERATURE: N/D
LOWER FLAMMABILITY LIMITS: N/D
UPPER FLAMMABILITY LIMITS: N/D
VAPOR PRESSURE (mmHg): N/D
VAPOR DENSITY (AIR = 1): N/D
EVAPORATION RATE: >3 (Fast)
SPECIFIC GRAVITY: (H2O = 1) 1.2-1.3
pH: N/A
SOLUBILITY IN WATER: 0%
PARTITION COEF., n-OCTANOL/WATER: N/D
VOLATILITY INCLUDING WATER (%): 100%
VOLATIL ORGANIC COMPOUNDS (VOC): 0%
DIELECTRIC STRENGTH (Volts): N/D
VISCOSITY: N/D
VOLATILE ORGANIC COMPOUNDS (VOC): 0%



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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Chemically active metals and bases. **CHEMICAL STABILITY:** Stable. **POSSIBLE HAZARDOUS REACTIONS:** None Known. **CONDITIONS TO AVOID:** Temperatures greater than 122°F may cause bursting. **INCOMPATIBLE MATERIALS:** Strong acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers, and coatings. **HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, chlorine, hydrogen chloride and phosgene.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Tetrachloroethylene (127-18-4) LD50 (Oral, Rat) 2629 mg/kg; LC50 (Inhalation, Mouse, 8hr) 34200 mg/m³; Trichloroethylene (79-01-6) LD50 (Oral, Rat) 4920 mg/kg; LD50 (Dermal, Rabbit) > 20000 mg/kg; LC50 (Inhalation, Mouse, 4hr) 8450 ppm.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: Causes severe irritation, redness, tearing, pain, visual disturbance, may cause eye damage. **INGESTION:** Causes gastrointestinal irritation, headaches, nausea, diarrhea, vomiting, abdominal cramps. **INHALATION:** Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects, and death. **SKIN:** Irritation likely, redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin. **MEDICAL CONDITION AGGRAVATED:** Excessive exposure will aggravate pre-existing disorders of eyes, skin, respiratory, liver, kidney, cardiovascular system, pulmonary illnesses, or central nervous system. **ACUTE HEALTH HAZARDS:** Inhalation: dizziness, drowsiness, weakness, and fatigue. **Eye:** stinging, tearing, redness. **Oral:** Vomiting, discomfort, diarrhea. **Skin:** Prolonged or repeated contact may dry skin. **CHRONIC HEALTH HAZARDS:** Possible cancer-causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system. **CARCINOGENICITY--** OSHA: Yes; ACGIH: A2 – Suspected; NTP: 2 – Anticipated; IARC: 2A – Probable. **OTHER:** CA Prop 65.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Trichloroethylene (79-01-6) LC50 (96hr) Fish: 41 - 67 mg/L. **PERSISTENCE AND DEGRADABILITY:** Component or components of this product are not biodegradable. **BIOACCUMULATIVE POTENTIAL:** Components in this mixture can bioaccumulate in aquatic organisms. **MOBILITY IN SOIL:** This product is mobile in soil. **OTHER ADVERSE EFFECTS:** This material is toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations. **RCRA STATUS:** Waste solvent likely considered F002, hazardous halogenated solvents, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S): Aerosol Can

PROPER SHIPPING NAME: LUBRICATING OIL, GREASE OR PETROLEUM

HAZARD CLASS: None

ID NUMBER: None

PACKING GROUP: N/A

LABEL STATEMENT: Limited Quantity

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Trichloroethylene (79-01-6) Reportable Quantity = 100 lbs Tetrachloroethylene (127-18-4) Reportable Quantity = 100 lbs.

SARA 311/312 HAZARD CATEGORIES: Acute Health, Chronic Health.

SARA 313 REPORTABLE INGREDIENTS: Tetrachloroethylene (127-18-4); Trichloroethylene (79-01-6).

STATE REGULATIONS-- Prop 65: This product can expose you to chemicals including Trichloroethylene which is known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

INTERNATIONAL REGULATIONS: Trichloroethylene, CAS 79-01-6, - EC - yes, Japan – yes, Australia – yes, Korea – yes, Canada DSL – yes, Canada NDSL –no, Philippines – yes. Tetrachloroethylene (127-18-4) WHMIS (Canada) Class D-1B: Material causing immediate and serious toxic effects (TOXIC). Class D-2A: Material causing other toxic effects (VERY TOXIC).

INTERNATIONAL REGULATIONS: Trichloroethylene, CAS 79-01-6, -EC – yes, Japan – yes, Australia – yes, Korea – yes, Canada DSL – yes, Canada NDSL – no, Philippines – yes.



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SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 2; Flammability = 1; Reactivity = 0; Other = - ; Protection = C.

DISCLAIMER: To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.