



Material Safety Data Sheet

Better Chemistry. **Better Business.**

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SECTION I - PRODUCT IDENTIFICATION

TRADE NAME: MetalGuard® 510

PRODUCT CODE: 2505010

CHEMICAL NAME: Hydrocarbons

REVISION DATE: November 3, 2009

CHEMICAL FAMILY: Organic Petroleum Hydrocarbons

REACH PRE-REGISTRATION NUMBER: 05-2114491246-44-0000

SECTION II - HAZARDOUS INGREDIENTS

KEROSENE, HYDROTREATED (APPROX) 90-95%, CAS #64742-47-8, REGULATED UNDER IARC SUBSTANCES NOT ASSIGNED AN OVERALL EVALUATION. IARC: ANIMAL EVIDENCE IS LIMITED; IARC: VOL 45 (1989).

***BARIUM COMPOUND** (LESS THAN) 10%, CAS #7440-39-3 OSHA: TWA=0.5 MG/M3, REGULATED UNDER SDWA/MCLS, SDWA/STATUTORY CONTAMINANTS, RCRA, RCRA HAZARDOUS CONSTITUENTS FOR GROUNDWATER MONITORING, SARA TITLE III SECTION 313, SARA SECTION 110, DOT HAZARDOUS MATERIALS, MA SUBSTANCE LIST, NJ RIGHT-TO-KNOW HAZ SUBSTANCE LIST, PA HAZARDOUS SUBSTANCE LIST E. EPA: EPCRA SECTION 313 DE MINIMIS CONCENTRATION IS 1.0%.

DIPROPYLENE GLYCOL MONOMETHYL ETHER (APPROX) 2%, CAS #34590-94-8, REGULATED UNDER TSCA SECTION 4(e), OSHA AIR CONTAMINANTS, ACGIH TLV CHEMICALS, TSCA SECTION 8(a), 40 CFR 712, TSCA SECTION 8(d), CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM IN WHICH THE INGREDIENT MUST BE DISCLOSED AT CONCENTRATION AT 1% MA SUBSTANCELIST, NJ RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST, PA ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST, ACGIH: TWA IS 100 PPM OR 606 MG/M3; STEL IS 150 PPM OR 909 MG/M3, SKIN NOTATION; OSHA TABLES Z-1 & Z-1A: TWA IS 100 PM OR 600 MG/M3; STEL IS 150 PPM OR 900 MG/M3; SKIN DESIGNATION.

PROPYLENE GLYCOL MONOMETHYL ETHER (APPROX) 2%, CAS #107-98-2, REGULATED UNDER DOT HAZARDOUS MATERIALS, TSCA SECTION 8 (a) / 40 CFR 712, TSCA SECTION 8 (d), OSHA AIR CONTAMINANTS, ACGIH TLV CHEMICALS, NJ RIGHT-TO KNOW HAZARDOUS SUBSTANCE LIST, MA SUBSTANCE LIST, PA ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST, CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM IN WHICH THE INGREDIENT MUST BE DISCLOSED AT CONCENTRATION AT 1%, ACGIH: TWA IS 100 PPM OR 369 MG/M3; STEL IS 150 PPM OR 553 MG/M3; OSHA TABLE Z-1-A: TWA IS 100 PPM OR 360 MG/M3; STEL IS 150 PPM OR 540 MG/M3.

* THIS SUBSTANCE IS A CHEMICAL SUBJECT TO SARA TITLE III, SECTION 313 REPORTING REQUIREMENTS.

NO OTHER INGREDIENTS IN THIS MIXTURE ARE CONSIDERED TO BE HAZARDOUS ACCORDING TO ANY STATE OR FEDERAL REGULATIONS.

SECTION III - PHYSICAL DATA

VAPOR PRESSURE: 2.8mm, Hg, @20 C.

SPECIFIC GRAVITY: 0.835

EVAPORATION RATE (ETHER =1): Less than 0.1

VAPOR DENSITY (AIR =1): 4.8

PERCENTAGE OF VOLATILITY BY VOLUME: Greater than 80% by weight. **PH:** N/A

APPEARANCE AND ODOR: Light amber solution, hydrocarbon odor. **SOLUBILITY IN WATER:** Not soluble

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (F): 149°F.

FLAMMABLE LIMITS: LEL: 0.7 UEL: 4.8

EXTINGUISHING MEDIA: Foam, water fog, dry chemical, co2, vapor rising liquid.

SPECIAL FIRE FIGHTING MEDIA: Wear self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Empty containers may contain enough vapor to ignite or explode if exposed to spark or flame. This material is combustible and may be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment). May create vapor/air explosion hazard if heated. Vapors are heavier than air and may accumulate in low areas. If container is not properly cooled, it may explode in the heat of a fire.

SECTION V - HEALTH HAZARD DATA

HMS: HEALTH: 1 **FIRE:** 2 **REACTIVITY:** 0

THRESHOLD LIMIT VALUE (TLV): 100 PPM (525 MG/M3) for eight hour TWA (exposure limits for petroleum distillate – Stoddard solvent).

EFFECTS OF OVEREXPOSURE:

ACUTE: Skin and eye irritation, headache, dizziness, nausea, and respiratory distress.

CHRONIC: Repeated skin contact will result defecting of tissue resulting in rash or dermatitis. Prolonged or repeated inhalation may result in mild to severe pulmonary injury.

ROUTES OF ENTRY AND EMERGENCY FIRST AID PROCEDURES:

INHALATION? Yes **SKIN?** Yes **INGESTION?** Yes

CARCINOGENICITY: NTP? No **IARC MONOGRAPHS?** No **OSHA REGULATED?** No

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

SKIN: Dryness, rash, dermatitis

EYES: Severe irritation

INGESTION: Nausea (low oral toxicity), pulmonary distress.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any existing pathology of tissues in which this material comes in contact.

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: Flush with large quantities of cool clean water for at least 15 minutes, consult a physician.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing.

INGESTION: Do not induce vomiting, call physician or poison control center immediately, if unconscious, check vital signs and perform artificial respiration and CPR as needed.

INHALATION: Remove to fresh air. If unconscious check vital signs and perform artificial respiration

INHALATION: Headache, dizziness, light-headedness, feeling of intoxication and CPR as needed. If conscious and having breathing difficulties, administer oxygen.

SECTION VI – REACTIVITY DATA

INSTABILITY: Stable

INCOMPATIBILITY: This product forms combustible and/or explosive mixtures with air and/or oxygen. This product is incompatible with strong acids or bases, oxidizing agents, selected amines.

DECOMPOSITION: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Spark, flame, and incompatible materials listed above.

SECTION VII - SPILL OR LEAK PROCEDURES

SPILL, LEAK OR RELEASE: If trained in accordance to 29 CFR 1910.20 ventilate area, keep sources of spark and flame away, sequester spill and absorb with inert solvent absorbent. Keep all sources of ignition and hot metal surfaces away from spill/release. Stay upwind and away from spill/release. Isolate hazard area ND limit entry to emergency crew. Stop spill/release if it can be done without risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (See Section IV). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Dike far ahead of spill for later absorbent material. Notify fire authorities and appropriate federal, state and local agencies. Immediate cleanup of any spill is recommended. If spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the National Response Center (Phone number 800-424-8002).

WASTE DISPOSAL: Dispose of product in accordance with local, county, state, and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH-Approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air-supplied respirators depending on concentrations.

ENGINEERING CONTROLS: Air contaminant levels should be controlled below the PEL or TLV for this product (See Health Hazards). Mechanical ventilation may be necessary if working with this product in enclosed areas and at elevated temperatures.

SPECIAL: Heated drying applications may require explosion proof equipment.

OTHER: N/A

PROTECTIVE GLOVES: Solvent resistant, recommended for prolonged use.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Solvent resistant apron, solvent resistant safety shoes or boots.

SECTION IX - SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Keep containers tightly closed, cool, dry and away from all sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good hygiene practice. Bond and ground equipment when transferring to another container. "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. "Empty" drums should be completely drained, properly bunged and promptly shipped to the supplier or drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations before working on or in tanks which contain or have contained this product, refer to occupational safety and health administration regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

OTHER PRECAUTIONS: Do not store empty containers in non-ventilated areas.

SECTION X - TRANSPORTATION REQUIREMENTS

FOR DOMESTIC SHIPMENTS:

PROPER SHIPPING NAME: PETROLEUM DISTILLATES, N.O.S. (ALIPHATIC HYDROCARBONS)*

HAZARD CLASS: COMBUSTIBLE

ID NUMBER: UN1268

PKG. GROUP: III

DOT GUIDE: 128

***NOTE:** IN CONTAINERS OF 119 GALLONS CAPACITY OR LESS THIS PRODUCT IS NOT REGULATED BY DOT.

FOR INTERNATIONAL SHIPMENTS:

PROPER SHIPPING NAME: PETROLEUM DISTILLATES, N.O.S. (ALIPHATIC HYDROCARBONS), NOT HAZARDOUS

HAZARD CLASS: N/A

ID NUMBER: N/A

PKG. GROUP: N/A

DOT GUIDE: N/A

NOTICE

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