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MATERIAL SAFETY DATA SHEETS

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Health Emergencies: Call 911
Poison Control Center (800) 876-4766

PRODUCT IDENTIFICATION & SCAQMD INFORMATION

Product name: Metering Roller Cleaner (MRC)

Generic Name: Solvent Blend

DOT Proper

Shipping Name: Paint Related Material

ID Number: UN-1263

Hazard Classification: 3, PG II (Flammable Liquid)

SCAQMD INFORMATION

The VOC for this MATERIAL less
WATER & EXEMPT material is:
475 Grams/Liter or 3.96 Pounds/Gallon

VOC Composite Partial Pressure
(Vapor Pressure):
9.60 mm Hg @ 20 Degs. C

*****This is an industrial product and should only be used or handled by trained personnel.*****

SECTION I - INFORMATION ON INGREDIENTS AND EXPOSURE GUIDELINES

Provide sufficient mechanical ventilation (general and workstation) to maintain exposure below TLV's.

INGREDIENT(S)	CAS NUMBERS	TLV/PEL	UNITS	AGENCY	TYPE
ACETONE	67-64-1	750	PPM	OSHA	TWA
		1000	PPM	OSHA	STEL
		500	PPM	ACGIH	TWA
		750	PPM	ACGIH	STEL
TOLUENE	108-88-3	100	PPM	OSHA/ACGIH	TWA
		150	PPM	OSHA/ACGIH	STEL
AROMATIC PETROLEUM DISTILLATES	64742-95-6	NO EXPOSURE LIMITS ESTABLISHED			
1,2,4,-TRIMETHYLBENZENE	95-63-6	NO EXPOSURE LIMITS ESTABLISHED			
ALIPHATIC HYDROCARBON	64742-89-8	300	PPM	OSHA/ACGIH	TWA
		400	PPM	OSHA	STEL
ISOPROPANOL	67-63-0	400	PPM	OSHA/ACGIH	TWA
		500	PPM	OSHA/ACGIH	STEL
GLYCOL ETHER EB	111-76-2	25 SKIN	PPM	OSHA/ACGIH	TWA

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

****EMERGENCY****

CALL 911

Poison Control Center (800) 876-4766

EYE CONTACT:

Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the affected eye(s) with clean water for at least 20 minutes--seek IMMEDIATE medical attention. **We strongly recommend that you have an industrial eyewash station at your facility.**

SKIN CONTACT:

Immediately flush affected area(s) with large amounts of water while removing contaminated shoes, clothing, and constrictive jewelry. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse the affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek IMMEDIATE medical attention.

INHALATION (BREATHING):

Immediately move victim away from source of exposure and into fresh air. If respiratory symptoms or other symptoms of exposure develop, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek IMMEDIATE medical attention.

INGESTION (SWALLOWING):

******SEEK EMERGENCY MEDICAL ATTENTION******If victim is drowsy or unconscious, place on left side with head down, and do not give anything by mouth. *****DO NOT INDUCE VOMITING*****If vomiting occurs spontaneously, keep head below hips. Vomiting should only be induced under the direction of a physician or poison control center. Do not leave victim unattended.

SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

SYMPTOMS OF EXPOSURE:

Signs and symptoms of exposure to this material through breathing, swallowing, or skin contact may include: stomach or intestinal upset (nausea, vomiting, or diarrhea); irritation of nose, throat, or airways; central nervous system depression which may include one or more of the following: nausea, headache, dizziness, drowsiness, weakness, fatigue, loss of coordination, confusion, or unconsciousness; slowing of the breathing rate; changes in heart rate; low blood pressure; mild, temporary changes in the liver; fluid buildup in the lungs; kidney damage; coma.

EYE CONTACT:

Causes severe irritation, experienced as discomfort or pain, excess blinking and tear production, excessive redness and marked swelling of the conjunctiva. Corneal injury may occur.

SKIN CONTACT:

One or more components of this material may cause skin irritation. Prolonged or repeated skin contact may cause redness, burning, drying and cracking of the skin, and skin damage. Please wear chemical resistant gloves (consult your safety equipment supplier).

SECTION III - CONTINUED - HEALTH HAZARDS/ROUTES OF ENTRY

SKIN ABSORPTION:

Skin contact may be harmful. Contact may result in skin absorption. This material may be toxic when absorbed through the skin. Persons with pre-existing skin disorders or sensitive skin may be more susceptible to the effects of this material.

INHALATION (BREATHING):

Do not breathe vapors; use adequate ventilation

This material has a low degree of toxicity by inhalation. Breathing high concentrations of vapors or mists may cause:

Irritation of the nose and throat.

Signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, fatigue, and nausea).

Prolonged or repeated exposure to vapors or mists may cause:

Liver and/or kidney damage.

Respiratory symptoms associated with pre-existing lung disorders (e.g., asthma-like conditions) may be aggravated by exposure to this material.

Refer to Section I for proper Threshold Limit Values (TLV).

INGESTION (SWALLOWING):

Ingestion of this material may cause irritation of the digestive tract, nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, and fatigue), nausea, vomiting, and diarrhea.

TARGET ORGAN EFFECTS/DEVELOPMENTAL INFORMATION/CANCER INFORMATION:

Pre-existing heart, blood, kidney, liver, lung, skin, spleen, testis, or immune disorders may be aggravated by exposure to this material. **Intentional abuse, prolonged exposure, and overexposure** to this material (or a component(s)) may damage many human organ systems. **Exposure** to this material (or a component(s)) has been suggested as a cause of the following effects in laboratory animals or humans: mild, reversible liver effects; kidney, spleen, and liver abnormalities; blood abnormalities; immune system depression; kidney, spleen, and liver damage; lung and respiratory system damage; central nervous system damage; cardiac sensitization; cataracts; skin damage; vision and hearing loss. This material (or a component(s)) has been shown to cause harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain. Studies show that prolonged, **intentional abuse** of certain solvents during pregnancy can cause birth defects in humans. This material is not listed as a carcinogen by the IARC, NTP, or OSHA.

WARNING:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes called Solvent or Painters' Syndrome). Intentional misuse by deliberately concentrating and inhaling the contents of this product may be harmful or fatal.

NOTE TO PHYSICIANS:

Inhalation of high concentrations of this material may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Individuals with preexisting heart disorders may be more susceptible to arrhythmias. This material presents an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting. Preexisting disorders may be aggravated by exposure to this material.

SECTION IV - SPECIAL PROTECTION INFORMATION

VENTILATION:

If current ventilation practices are not adequate to maintain airborne concentrations below established exposure limits (see Section I), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

RESPIRATORY PROTECTION:

The use of respiratory protection is advised when concentrations exceed the established exposure limits (see Section I). Depending on the airborne concentration, use a respirator or gas mask with approved cartridges and canisters (NIOSH approved, if available) or supplied air equipment.

PROTECTIVE GLOVES:

To prevent skin contact and possible skin irritation or damage, the use of gloves, aprons, and similar protective clothing that is impermeable to the specific material handled (i.e., neoprene) is strongly advised. Consult your safety equipment supplier.

EYE PROTECTION:

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are strongly advised. OSHA regulations also permit other types of safety glasses. Consult your safety equipment supplier.

OTHER PROTECTIVE EQUIPMENT:

It is suggested that a source of clean water be available in the work area for flushing eyes and skin. Special safety stations and equipment are available for this purpose. Consult your safety equipment supplier.

SECTION V - REACTIVITY DATA

STABILITY:

This product is stable.

INCOMPATIBILITY (MATERIALS TO AVOID):

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

HAZARDOUS POLYMERIZATION:

Hazardous polymerization will not occur.

SECTION VI - SPILL OR LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

Eliminate all ignition sources (flares, pilot lights, other flames, sparks, heaters, **smoking**, motors, static discharge, and other sources of ignition). Persons not wearing protective equipment should be excluded from spill area until clean up has been completed. Stop spill at source and prevent from spreading if safe to do so. Prevent spill from entering drains, sewers, flood control channels, streams, or other bodies of water if safe to do so. If runoff occurs, notify local, state, and federal agencies that a spill has occurred. Small spills may be absorbed with vermiculite, or other absorbent material designed for hazardous material spills. Pump or vacuum transfer larger spills to clean waste containers; then absorb unrecoverable material. Transfer used absorbent material, soil, and other contaminated materials to approved waste container. A licensed waste management professional should do the disposal of all spilled product and contaminated material. It is strongly recommended that you purchase one or more hazardous materials spill kits for your facility.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Keep containers tightly closed. Keep containers cool, dry, and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with this product. Use good personal hygiene practices. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. All hazard precautions given in this MSDS and on container label must be observed even though container is "empty." Do not pressurize, cut, weld, braze, solder, drill, grind, or expose product 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 a drum reconditioner. Other containers should be disposed of in an environmentally safe manner and in accordance with government 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 government and industry references pertaining to cleaning, repairing, welding, or other planned operations. Static sparks may ignite this product and/or its vapors. Use proper bonding and grounding equipment and techniques during liquid transfer as described in the National Fire Protection Association Document NFPA 77. All containers must be grounded when transferring product. All hazard precautions given in this MSDS and on container label apply to rags, sponges, or other materials that are used to hold this material.

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

<u>HAZARD RANKING</u>	<u>HMIS HAZARD CLASS</u>
0 = LEAST	HEALTH HAZARD: 2
1 = SLIGHT	FLAMMABILITY: 3
2 = MODERATE	REACTIVITY: 0
3 = HIGH	PERSONAL PROTECTION: Synthetic Gloves, Apron, & Splash Goggles.
4 = EXTREME	

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Lower - Upper Explosive Limit (% Vol.): Not Yet Determined

Flash Point: <100 °F

EXTINGUISHING MEDIA:

Extinguish with dry chemical, CO₂, or a universal type foam.

FIRE AND EXPLOSION HAZARDS: ***USE EXTREME CAUTION***

This material is **FLAMMABLE** and readily gives off vapors that may travel along the ground or move by ventilation. These vapors could be ignited by pilot lights, other flames, sparks, heaters, smoking, motors, static discharge, or other sources of ignition at locations far from the material handling point.

FIRE FIGHTING PROCEDURES:

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes. Vapors are heavier than air and will collect in low areas. Vapors may travel by air currents and ignite at a distance from container or spill.

SECTION IX – STATE AND FEDERAL REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65 WARNING:

The following statement is made to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:

This product contains detectable amounts of substance(s) known to the State of California to cause cancer, birth defects, or other reproductive harm:

Toluene; Benzene; Ethylene Glycol Monoethyl Ether.

Section 311/312 Hazard Class -- 40 CFR 370.2: This product is rated as a fire hazard under the reporting requirements of SARA 311 and 312. The health hazard category for this product under SARA Sections 311/312 reporting meets both immediate (acute) and delayed (chronic) definitions.

TSCA (Toxic Substances Control Act) Status: The intentional ingredients of this product are listed.

CERCLA RQ -- 40 CFR 302.4(a): Toluene 1000 lbs.
Acetone 5000 lbs.

SARA 302 Components -- 40 CFR 355 Appendix A: None

SARA 313 Components -- 40 CFR 372.65:

Listed ingredients	CAS Numbers	Percent Range
TOLUENE	108-88-3	20 -- 30
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	2 -- 5
1,2,4-TRIMETHYLBENZENE	95-63-6	1 -- 3

OSHA Process Safety Management -- 29 CFR 1910: None listed.

EPA Accidental Release Prevention -- 40 CFR 68: None listed.

Waste Management Information: Dispose of this product in accordance with all applicable local, state, & federal regulations. Please use a licensed waste management company for proper disposal or recycling of this product, or contact the your state's water board or regional office of the EPA. **Do not** discharge this product or effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans, or other waters.

SECTION X - PHYSICAL AND CHEMICAL PROPERTIES

<u>BOILING POINT (for lowest component):</u> 133 Degrees F.	<u>RELATIVE EVAPORATION RATE (Ethyl Ether=1):</u> >1
<u>VAPOR PRESSURE:</u> 109.83 mm Hg @ 20 Degrees C	<u>VAPOR DENSITY:</u> Heavier Than Air
<u>SPECIFIC GRAVITY:</u> . 814	<u>SOLUBILITY IN WATER:</u> Slight
<u>PH</u> N/A	<u>APPEARANCE:</u> Clear Particle-Free Homogeneous Mobile Liquid with Characteristic Solvent Odor
PHOTOCHEMICALLY REACTIVE (SCAQMD RULE 102)	<u>PERCENT VOLATILE BY VOLUME:</u> 100 %

Disclaimer of Expressed and Implied Warranties

The information in this document has been carefully prepared and is believed to be correct as of the date issued. **Because Star Products does not make its products, qualified experts from the chemical suppliers and manufacturers to Star Products furnished the information and opinions expressed herein.** No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is implied regarding the accuracy or completeness of this information, the results obtained from the use of this information and the product, or the safety of this product and the hazards related to its use. This information and the product are furnished on the condition that the person(s) receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use thereof.

Please study this Material Safety Data Sheet carefully and become aware of the information it contains. There are specific federal laws on the responsibilities of purchasers and users of chemicals.