

# Varn International, Inc., a Flint Group Company

14909 N. Beck Road  
Plymouth, MI 48180

For Product Questions call: (800) 336-VARN(8276)  
For Health and Safety Questions call: (800) 336-VARN(8276)  
After Hours Emergency Health/Safety Questions: (800) 391-0698 Prosar (US/Canada)  
24 Hour Emergency Spill Contact call: (800) 424-9300 Chemtrec (US/Canada)

## Material Safety Data Sheet

### I. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MRC  
**Product Code:** 650-B015019  
**MSDS Code:** MSD-B015019  
**Revision Number:** 1  
**Revision Date:** 2011-03-04 21:42:09

### II. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
68410-97-9	Hydrotreated light distillate (naphtha)	60 - 99
34590-94-8	Dipropylene Glycol Monomethyl Ether	1 - 5

Please see Section VIII for product and component exposure guidelines.

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

### III. HAZARDS IDENTIFICATION

**HMIS Rating**    **Health: 1**                      **Flammability: 3**                      **Reactivity: 0**

**This product falls under the following WHMIS class:**

B2

**Routes of Entry:** Skin contact, Inhalation, Ingestion, Eye contact  
**Target Organs:** Eyes, Central Nervous System, Respiratory Tract  
**Medical Conditions Aggravated:** Eye disease, Respiratory disease including asthma and bronchitis

#### Immediate (Acute) Health Effects by Route of Exposure

**Inhalation:** Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.  
**Skin Contact:** Can cause minor skin irritation.  
**Eye Contact:** Can cause minor irritation, tearing and reddening.  
**Ingestion:** Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort. Aspiration of material into the lungs can cause chemical pneumonitis. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

#### Long-Term (Chronic) Health Effects

**Reproductive and Developmental:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

MRC

**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

**Inhalation:** Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

**Skin Contact:** Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. Upon prolonged or repeated exposure, minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

**Ingredients of this product appear on the following OSHA identified carcinogen lists at >= 0.1% by weight (yes/no):**

OSHA	No	NTP	No	IARC 1 & 2A	No	NIOSH	No
				IARC 2B	No		

#### IV. FIRST-AID MEASURES

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**Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

**Eyes:** Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

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

**Ingestion:** Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this MSDS.

#### V. FIRE FIGHTING MEASURES

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**Flammability Summary:** Flammable NFPA IB (NFPA description only; not to be used for shipping purposes)

**Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Dry chemical Carbon dioxide Alcohol foam Water fog

**Fire and/or Explosion Hazards:** Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion.  
Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.

**Fire Fighting Methods and Protection:** Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

Flash Point: Less than 38 C (100F)  
 Tested by TAG Closed Cup 64 deg F  
 Firepoint: Firepoint not determined.  
 Autoignition Temperature: 288 deg C 550 deg F

**VI. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions and Equipment:** No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

**Methods for Clean-up:** Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

**VII. HANDLING AND STORAGE**

**Product Use:** Press Wash

**Handling Precautions:** Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

**Storage Conditions:** Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Measures:** Local exhaust ventilation may be necessary to control any air contaminants to within the TLV during the use of this product Explosion proof exhaust ventilation should be used.

**Respiratory Protection:** General or local exhaust ventilation is the preferred means of control. If general or local exhaust ventilation is not available or sufficient to control or eliminate symptoms as described in Section III, respiratory protection should be used. Conduct air monitoring to determine if airborne concentrations exceed an applicable exposure limit.

**Eye Protection:** Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Wear impervious material. Butyl rubber or Nitrile

**Exposure Guidelines:**

CAS#	Chemical Name	OSHA Exposure Limits	ACGIH TLV - TWA	ACGIH STEL	IDLH
68410-97-9	Hydrotreated light distillate (naphtha)		No TLV	No STEL	Not on list

34590-94-8	Dipropylene Glycol Monomethyl Ether	100 ppm TWA; 600 mg/m3 TWA prevent or reduce skin absorption	100 PPM TWA; 606 MG/M3 TWA	150 PPM STEL; 909 MG/M3 STEL	600 ppm IDLH
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If this product is provided in a dry powder state it should be considered a nuisance dust (PEL 10 mg/m3).

If the processing of this product produces a mist it should be considered to be an oil mist with a PEL of 5 mg/m3.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Petroleum or solvent
<b>Solubility in Water:</b>	Negligible; 0 -1%
<b>Vapor Pressure (mmHg @ 20 deg. C):</b>	9.65
<b>Volatile Organic Chemicals % by wt:</b>	100.00
<b>VOC lb/gal</b>	6.25
<b>Boiling Point:</b>	93 deg C 199 deg F
<b>Specific Gravity:</b>	0.75
<b>Bulk Density (lbs/Gal):</b>	6.25
<b>Bulk Density (kg/L):</b>	0.75

**X. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Sparks, open flame, other ignition sources, and elevated temperatures.
<b>Materials to Avoid/Chemical Incompatibility:</b>	Strong oxidizing agents.

**XI. TOXICOLOGICAL INFORMATION**

**Component Toxicology Data (NIOSH):**

CAS#	Chemical Name	LD50/LC50
68410-97-9	Hydrotreated light distillate (naphtha)	No data available
34590-94-8	Dipropylene Glycol Monomethyl Ether	Oral LD50 Rat 5230 mg/kg; Dermal LD50 Rabbit 9500 mg/kg

**XII. DISPOSAL CONSIDERATIONS**

<b>Waste Description for Spent Product:</b>	Spent or discarded material may be a hazardous waste.
<b>Disposal Methods:</b>	Dispose in accordance with Federal, State, Provincial and Local regulations. Material may be compatible with industrial waste incineration or inclusion in a fuel blending program. This characterization is subject to approval by your waste management contractor. This material should be recycled if possible.

**XIII. REGULATORY INFORMATION**

<b>TSCA Status</b>	All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
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Chemical Name	CAS #	Regulation	Percentage
Not on list		CERCLA	
MRC			

Not on list  
Not on list  
Not on list  
Not on list

NPRI (Cdn)  
PROP 65  
SARA 313  
SARA EHS

**The following items require export notification for TSCA**

**Chemical Name**

Dipropylene glycol monomethyl ether

**TSCA 12b list section**

Section 4, 1 % de minimus concentration

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains information required by the Controlled Products Regulations.

**XIV. TRANSPORTATION INFORMATION**

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<b>49CFR/TDG - Limited Quantity:</b>	LIMITED QUANTITY EXCEPTION MAY BE USED IF EACH INNER PACKAGING IS 0.3 GAL (1 L) OR LESS. ADD "LTD QTY" TO DESCRIPTION.
<b>49CFR/TDG - Non-bulk:</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (PETROLEUM NAPHTHA, DIPROPYLENE GLYCOL METHYL ETHER), 3, PGII, ERG128
<b>49CFR/TDG - Bulk:</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (PETROLEUM NAPHTHA, DIPROPYLENE GLYCOL METHYL ETHER), 3, PGII, ERG128
<b>IATA - Limited Quantity:</b>	LIMITED QUANTITY EXCEPTION MAY BE USED IF EACH INNER PACKAGING IS 0.3 GAL (1 L) OR LESS. ADD "LTD QTY" TO DESCRIPTION.
<b>IATA - Non-bulk:</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (PETROLEUM NAPHTHA, DIPROPYLENE GLYCOL METHYL ETHER), 3, PGII, ERG128
<b>IMDG - Non-bulk:</b>	REGULATED. REFER TO BILL OF LADING.

**XV. ADDITIONAL INFORMATION**

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**References:**

**Disclaimer:** Varn International, Inc. a Flint Group Company has prepared this Material Safety Data Sheet ("MSDS") in compliance with 29 CFR 1910.1200, understands that its customers may use this MSDS to comply with that section, and believes that the data set forth herein are accurate as of the date hereof; however, this MSDS shall not constitute a warranty with respect thereto.