

Varn International, Inc., a Flint Group Company

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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: PLATE WASH R-7
Product Code: 650-B010017
MSDS Code: MSD-B010017
Revision Number: 1
Revision Date: 2011-04-06 13:59:19

II. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
64742-49-0	Naphtha (petroleum), hydrotreated light	15 - 40
108-88-3	Toluene	10 - 30
67-63-0	Isopropanol	10 - 30
68410-97-9	Hydrotreated light distillate (naphtha)	5 - 10

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: 2** **Flammability: 3** **Reactivity: 0**

This product falls under the following WHMIS class:

D2B
B2

Routes of Entry: Eye contact, Inhalation, Ingestion, Skin contact
Target Organs: Kidneys, Lungs, Liver, Eyes, Skin, Central Nervous System, Respiratory Tract
Medical Conditions Aggravated: Kidney disease, Lung disease, Liver disease, Respiratory disease including asthma and bronchitis, Eye disease, Skin disease including eczema and sensitization

Immediate (Acute) Health Effects by Route of Exposure

Inhalation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Irritation may be delayed for several hours. Harmful! Can cause systemic damage.
Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact: Can cause moderate/severe irritation, tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Ingestion: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. 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.

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. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure.

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, harmful if absorbed through the skin. May cause minor systemic damage.

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

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: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis.

V. FIRE FIGHTING MEASURES

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

Extinguishing Media: Dry chemical Carbon dioxide Alcohol foam Water fog

Fire and/or Explosion Hazards:	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. 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. Use water spray/fog for cooling. 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	0 deg F
Firepoint:	Firepoint not determined.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. 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. Keep away from sources of ignition.

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.
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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. Polyvinyl alcohol (PVA) Viton

Exposure Guidelines:

CAS#	Chemical Name	OSHA Exposure Limits	ACGIH TLV - TWA	ACGIH STEL	IDLH
64742-49-0	Naphtha (petroleum), hydrotreated light		300 ppm	500 ppm	Not on list
108-88-3	Toluene	200 PPM TWA; C 300 PPM 300 ppm Ceiling	50 PPM TWA; 188 MG/M3 TWA	No STEL	Not on list
67-63-0	Isopropanol	400 ppm TWA; 980 mg/m3 TWA	200 ppm TWA	400 ppm STEL	Not on list
68410-97-9	Hydrotreated light distillate (naphtha)		No TLV	No STEL	Not on list

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

Physical State:	Liquid
Color:	Clear
Odor:	Petroleum or solvent
Solubility in Water:	Low; 10-49%
Vapor Pressure (mmHg @ 20 deg. C):	67.3
Volatile Organic Chemicals % by wt:	99.99
VOC lb/gal	6.41
Specific Gravity:	0.77
Bulk Density (lbs/Gal):	6.41
Bulk Density (kg/L):	0.77

X. STABILITY AND REACTIVITY

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

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

CAS#	Chemical Name	LD50/LC50
64742-49-0	Naphtha (petroleum), hydrotreated light	Inhalation LC50 Rat 73680 ppm 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >3160 mg/kg
108-88-3	Toluene	Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg
67-63-0	Isopropanol	Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg
68410-97-9	Hydrotreated light distillate (naphtha)	No data available

XII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	Spent or discarded material may be a hazardous waste.
Disposal Methods:	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

TSCA Status	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
Benzene, methyl	108-88-3	CERCLA	28.67
Toluene	108-88-3	NPRI (Cdn)	28.67
Isopropyl alcohol	67-63-0	NPRI (Cdn)	25.83
Toluene	108-88-3	PROP 65	28.67
Benzene, ethyl-	100-41-4	PROP 65	0.01
Toluene	108-88-3	SARA 313	28.67
Not on list		SARA EHS	

The following items require export notification for TSCA

Chemical Name	TSCA 12b list section
Not on list	

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

49CFR/TDG - Limited Quantity:	LIMITED QUANTITY EXCEPTION MAY BE USED IF EACH INNER PACKAGING IS 0.3 GAL (1 L) OR LESS. ADD "LTD QTY" TO DESCRIPTION.
49CFR/TDG - Non-bulk:	UN1993, FLAMMABLE LIQUID, N.O.S. (NAPHTHA, TOLUENE), 3, PGII, ERG128
49CFR/TDG - Bulk:	UN1993, FLAMMABLE LIQUID, N.O.S. (NAPHTHA, TOLUENE), 3, PGII, ERG128
IATA - Limited Quantity:	LIMITED QUANTITY EXCEPTION MAY BE USED IF EACH INNER PACKAGING IS 0.3 GAL (1 L) OR LESS. ADD "LTD QTY" TO DESCRIPTION.

IATA - Non-bulk: UN1993, FLAMMABLE LIQUID, N.O.S. (NAPHTHA, TOLUENE), 3, PGII,
ERG128
IMDG - Non-bulk: REGULATED. REFER TO BILL OF LADING.

XV. ADDITIONAL INFORMATION

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.