

# 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:** PEARLdry PLATE CLEANER  
**Product Code:** 650-B015003  
**MSDS Code:** MSD-00940042  
**Revision Number:** 1  
**Revision Date:** 2011-03-02 21:28:44

### II. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
67-63-0	Isopropanol	60 - 90
64742-47-8	Hydrotreated Light Distillate (Petroleum)	5 - 10
64742-95-6	Solvent naphtha (petroleum), light arom.	1 - 5
95-63-6	1,2,4-Trimethylbenzene	1 - 5
94266-47-4	Citrus Terpenes	0.1 - 1

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:**

D2B  
B2

**Routes of Entry:** Eye contact, Skin contact, Inhalation, Ingestion  
**Target Organs:** Skin, Respiratory Tract, Eyes, Central Nervous System, Lungs, Blood  
**Medical Conditions Aggravated:** Respiratory disease including asthma and bronchitis, Lung disease, 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. Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination.

**Skin Contact:** Can cause minor skin irritation, defatting, and dermatitis.

**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. Harmful if swallowed. May cause systemic poisoning.

**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 minor 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 minor skin irritation, defatting, and dermatitis. 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**

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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:** 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**

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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.

**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.

**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** 59 deg F  
**Firepoint:** Firepoint not determined.  
**Upper Flammable/Explosive Limit, % in air:** 6.2  
**Lower Flammable/Explosive Limit, % in air:** 1.2

#### **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**

**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:** General room ventilation might be required to maintain operator comfort under normal conditions of use.

**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.

**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:** Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. 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
67-63-0	Isopropanol	400 ppm TWA; 980 mg/m3 TWA	200 ppm TWA	400 ppm STEL	Not on list
64742-47-8	Hydrotreated Light Distillate (Petroleum)		No TLV	No STEL	Not on list

64742-95-6	Solvent naphtha (petroleum), light arom.	No TLV	No STEL	Not on list
95-63-6	1,2,4-Trimethylbenzene	No TLV	No STEL	Not on list
94266-47-4	Citrus Terpenes	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

<b>Physical State:</b>	Liquid
<b>Color:</b>	Yellow
<b>Odor:</b>	Alcohol Petroleum or solvent
<b>Solubility in Water:</b>	Emulsifies
<b>Vapor Pressure (mmHg @ 20 deg. C):</b>	24.56
<b>Volatile Organic Chemicals % by wt:</b>	99.72
<b>VOC lb/gal</b>	6.64
<b>Specific Gravity:</b>	0.8
<b>Bulk Density (lbs/Gal):</b>	6.66
<b>Bulk Density (kg/L):</b>	0.8

## 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
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
64742-47-8	Hydrotreated Light Distillate (Petroleum)	No data available
64742-95-6	Solvent naphtha (petroleum), light arom.	Inhalation LC50 Rat >5.2 mg/L 4 h; Inhalation LC50 Rat 3400 ppm 4 h; Oral LD50 Rat 8400 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
95-63-6	1,2,4-Trimethylbenzene	ORAL, RAT: LD50 = 5 GM/KG; INHALATION, RAT: LC50 = 18 GM/M3/4H
94266-47-4	Citrus Terpenes	ORAL, RAT: LD50 = 4400 MG/KG; ORAL, MOUSE: LD50 = 5600 MG/KG; SKIN, RABBIT: LD50 = >5 GM/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

PEARLdry PLATE CLEANER

**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.

Chemical Name	CAS #	Regulation	Percentage
Benzene, dimethyl-	1330-20-7	CERCLA	0.24
Benzene, (1-methylethyl)-	98-82-8	CERCLA	0.16
Isopropyl alcohol	67-63-0	NPRI (Cdn)	79.78
Light aromatic solvent naphtha	64742-95-6	NPRI (Cdn)	3.64
1,2,4-Trimethylbenzene	95-63-6	NPRI (Cdn)	2.58
Benzene, (1-methylethyl)-	98-82-8	PROP 65	0.16
1,2,4-Trimethylbenzene	95-63-6	SARA 313	2.58
Xylene (mixed isomers)	1330-20-7	SARA 313	0.24
Cumene	98-82-8	SARA 313	0.16
Not on list		SARA EHS	

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

Not on list

**TSCA 12b list section**

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. (ISOPROPANOL, PETROLEUM NAPHTHA), 3, PGII, ERG128
<b>49CFR/TDG - Bulk:</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL, PETROLEUM NAPHTHA), 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. (ISOPROPANOL, PETROLEUM NAPHTHA), 3, PGII, ERG128
<b>IMDG - Non-bulk:</b>	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.