

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: COMPLETE PLATE CLEANER
Product Code: 650-B015014
MSDS Code: MSD-00940050
Revision Number: 1
Revision Date: 2011-03-15 11:10:41

II. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
64742-48-9	Naphtha (petroleum), hydrotreated heavy	10 - 30
64742-94-5	Heavy Aromatic Solvent Naphtha (Petroleum)	3 - 7
56-81-5	Glycerine	1 - 5
7664-38-2	Orthophosphoric Acid	1 - 5
77-92-9	Citric Acid	1 - 5
102-71-6	Triethanolamine	0.5 - 1.5
91-20-3	Naphthalene	0.1 - 1
103-23-1	Dioctyl adipate	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: 2** **Flammability: 1** **Reactivity: 0**
HMIS Flammability based upon firepoint exemption.

This product falls under the following WHMIS class:
D2B

Routes of Entry: Ingestion, Inhalation, Skin contact, Eye contact
Target Organs: Lungs, Skin, Eyes, Kidneys, Respiratory Tract, Eyes, Respiratory Tract, Skin
Medical Conditions Respiratory disease including asthma and bronchitis, Kidney disease, Eye
Aggravated: 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. 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.

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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 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.

Ingestion:

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

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

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. This corrosive material can cause immediate and permanent eye damage. 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 under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately. Wash clothing before reuse.

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: Combustible at elevated temperatures, NFPA IIIB. Material may ignite but will not sustain combustion.

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

Fire and/or Explosion Hazards: Material will burn in a fire. Material will burn in a fire.

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 methods for the surrounding fire.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Flash Point: 93 C (200 F) and greater
Firepoint: Firepoint calculated >212F (100C)

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

VII. HANDLING AND STORAGE

Product Use: Lithographic Plate Cleaner
Handling Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Storage Conditions: Store in a cool dry place. Isolate from incompatible materials.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

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: Wear protective gloves. Inspect gloves at regular intervals and replace as necessary. 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
64742-48-9	Naphtha (petroleum), hydrotreated heavy		No TLV	No STEL	Not on list
64742-94-5	Heavy Aromatic Solvent Naphtha (Petroleum)		No TLV	No STEL	Not on list
56-81-5	Glycerine	TOTAL DUST: 15 MG/M3 TWA; RESPIRABLE FRACTION: 5 MG/M3 TWA	10 MG/M3 TWA (TOTAL DUST/PARTICULATE)	No STEL	Not on list
7664-38-2	Orthophosphoric Acid	1 MG/M3 TWA	1 MG/M3 TWA	3 mg/m3 STEL	Not on list
77-92-9	Citric Acid		No TLV	No STEL	Not on list

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102-71-6 91-20-3	Triethanolamine Naphthalene	10 PPM TWA; 50 MG/M3 TWA	5 MG/M3 TWA 10 PPM TWA; 52 MG/M3 TWA	No STEL 15 PPM STEL; 79 MG/M3 STEL	Not on list Not on list
103-23-1	Diocetyl adipate		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:	White to off-white
Odor:	Pine
Solubility in Water:	Emulsifies
Vapor Pressure (mmHg @ 20 deg. C):	0.05
Volatile Organic Chemicals % by wt:	34.26
VOC lb/gal	2.71
pH:	2.4
Specific Gravity:	0.95
Bulk Density (lbs/Gal):	7.91
Bulk Density (kg/L):	0.95

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data.
Materials to Avoid/Chemical Incompatibility:	Strong oxidizing agents. Strong alkalis Copper Copper alloys

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

CAS#	Chemical Name	LD50/LC50
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >3160 mg/kg
64742-94-5	Heavy Aromatic Solvent Naphtha (Petroleum)	Inhalation LC50 Rat >590 mg/m3 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
56-81-5	Glycerine	ORAL LD50 RAT: 12600 MG/KG; INHALATION LC50 RAT: >570 MG/M3/1H; ORAL LD50
7664-38-2	Orthophosphoric Acid	ORAL, RAT: LD50 = 1530 MG/KG; INHALATION, RAT: LC50 = >850 MG/M3/1H; SKIN, RABBIT: LD50 = 2740 MG/KG
77-92-9	Citric Acid	ORAL, RAT: LD50 = 3 GM/KG; ORAL, MOUSE: LD50 = 5040 MG/KG
102-71-6	Triethanolamine	ORAL, RAT: LD50 = 8 GM/KG; ORAL, MOUSE: LD50 = 5846 MG/KG; SKIN, RABBIT: LD50 = >20 ML/KG
91-20-3	Naphthalene	ORAL, RAT: LD50 = 490 MG/KG; INHALATION, RAT: LC50 = >340 MG/M3/1H; ORAL, MOUSE: LD50 = 533 MG/KG; SKIN, RABBIT: LD50 = >20 GM/KG
103-23-1	Diocetyl adipate	Oral LD50 Rat 5600 mg/kg; Dermal LD50 Rabbit 8410 mg/kg

XII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	Spent or discarded material is not expected to be a hazardous waste.
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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.

Chemical Name	CAS #	Regulation	Percentage
Phosphoric acid	7664-38-2	CERCLA	2.4
Naphthalene	91-20-3	CERCLA	0.68
Hydrotreated heavy naphtha	64742-48-9	NPRI (Cdn)	27.18
Heavy aromatic solvent naphtha	64742-94-5	NPRI (Cdn)	6.14
Naphthalene	91-20-3	PROP 65	0.68
Naphthalene	91-20-3	SARA 313	0.68
1,2,4-Trimethylbenzene	95-63-6	SARA 313	0.11
Not on list		SARA EHS	

The following items require export notification for TSCA

Chemical Name
Naphthalene

TSCA 12b list section
Section 4, 0.1 % 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

49CFR/TDG - Non-bulk: NOT REGULATED
IATA - Non-bulk: NOT REGULATED
IMDG - Non-bulk: NOT REGULATED

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.