

**Varn International, Inc., a Flint Group Company**

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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:** TYPE WASH  
**Product Code:** 650-B010021  
**MSDS Code:** MSD-00939952  
**Revision Number:** 1  
**Revision Date:** 2011-04-06 14:29:39

**II. COMPOSITION/INFORMATION ON INGREDIENTS**

| CAS#       | Chemical Name                           | %       |
|------------|---|---------|
| 108-88-3   | Toluene                                 | 30 - 60 |
| 67-63-0    | Isopropanol                             | 10 - 30 |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light | 10 - 30 |

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:** Central Nervous System, Kidneys, Liver, Eyes, Skin, Respiratory Tract  
**Medical Conditions Aggravated:** Kidney disease, Liver disease, Eye disease, Skin disease including eczema and sensitization, Respiratory disease including asthma and bronchitis, Lung disease

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

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**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)

**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

**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.

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**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:** 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. Polyvinyl alcohol (PVA) Viton

**Exposure Guidelines:**

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

If this product is provided in a dry powder state it should be considered a nuisance dust (PEL 10 mg/m3).

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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>                | Low; 10-49%          |
| <b>Vapor Pressure (mmHg @ 20 deg. C):</b>  | 55.8                 |
| <b>Volatile Organic Chemicals % by wt:</b> | 99.99                |
| <b>VOC lb/gal</b>                          | 6.66                 |
| <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  |
|------------|---|--|
| 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                                   |
| 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   |

## 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. |
|--------------------|---|

| Chemical Name             | CAS #    | Regulation | Percentage |
|---------------------------|----------|------------|------------|
| Benzene, methyl Toluene   | 108-88-3 | CERCLA     | 54.37      |
| Isopropyl alcohol Toluene | 108-88-3 | NPRI (Cdn) | 54.37      |
| Toluene                   | 67-63-0  | NPRI (Cdn) | 24.48      |
| Benzene, ethyl-Toluene    | 108-88-3 | PROP 65    | 54.37      |
|                           | 100-41-4 | PROP 65    | 0.02       |
|                           | 108-88-3 | SARA 313   | 54.37      |

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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**

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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. (NAPHTHA, TOLUENE), 3, PGII, ERG128   |
| <b>49CFR/TDG - Bulk:</b>             | UN1993, FLAMMABLE LIQUID, N.O.S. (NAPHTHA, TOLUENE), 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. (NAPHTHA, TOLUENE), 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.