# MATERIAL SAFETY DATA SHEET

**Date last revised:** October 29, 1986

**HMIS Codes:** H-2, F-3, R-0  
**NFPA Codes:** H-2, F-3, R-0

### I. General Information

- **Chemical Name & Synonyms**  
  - Trade Name & Synonyms:  
    - BRUSH CLEANER

- **Solvent Blend**

- **Chemical Family**

- **Aromatics, Alphatics, Ketones, Esters, Alcohols**

- **Proper DOT Shipping Name**

- **Paint Related Material, 3, UN1283, PGI**

- **Supplier**
  - NASCO INDUSTRIES, INC.
  - (330) 725-4991

- **Supplier’s Address**
  - 956 W. Smith Rd., Medina Ohio 44256
  - Chemtrec Phone Number: 1-800-424-9300

### II. Ingredients

<table>
<thead>
<tr>
<th>Principal Hazardous Components</th>
<th>Percent</th>
<th>Threshold Limit Value (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE CAS # 108-88-3</td>
<td>10-35</td>
<td>50 PPM</td>
</tr>
<tr>
<td>VM &amp; P Naphtha CAS#94742-89-8</td>
<td>30-45</td>
<td>300 PPM</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone CAS #78-93-3</td>
<td>5-10</td>
<td>200 PPM</td>
</tr>
<tr>
<td>Isobutyl Acetate CAS#110-19-0</td>
<td>3-7</td>
<td>150 PPM</td>
</tr>
<tr>
<td>Isopropanol CAS #67-63-0</td>
<td>3-7</td>
<td>400 PPM</td>
</tr>
</tbody>
</table>

### III. Physical Data

- **Boiling Range (C)**
  - 64-198 (147 - 388 F)

- **Vapor Pressure (mm Hg.)**
  - Max. 27 @ 20 C (68 F)

- **Vapor Density (Air = 1)**
  - Heavier than air, approx. 3.3

- **Solubility in Water**
  - Slight

- **Appearance & Odor**
  - Liquid, Water-white, Solvent odor

- **Specific Gravity (H2o = 1)**
  - 0.83

- **Percent Volatile By Volume (%)**
  - 100

- **Evaporation Rate (Butyl Acetate =1)**
  - Slower than ether

- **pH**
  - N/A

- **VOC**
  - 830 g/liter

### IV. Fire and Explosion Hazard Data

- **Flash Point (Test Method)**
  - -5 C (23 degrees F) tag closed cup

- **Auto-Ignition Temperature**
  - N/A

- **Extinguishing Media**
  - Foam, dry chemical, Carbon Dioxide or NFPA Class B extinguishers for Class IB liquid fires. Use water spray or fog to cool containers or structure.

- **Special Fire Fighting Procedures**
  - Do not enter confined fires space without full bunker gear including NIOSH approved positive pressure, self-contained breathing apparatus.

- **Unusual Fire and Explosion Hazards:**
  - Flammable! Keep container tightly closed. Isolate from oxidizers, heat, sparks, electric equipment and open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty containers very hazardous! Continue all labels precautions.
### V. Health Hazard Data

<table>
<thead>
<tr>
<th>OSHA Permissible Exposure Limit</th>
<th>ACGIH Threshold Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 PPM</td>
<td>See Section II</td>
</tr>
<tr>
<td>Carcinogen - NTP Program</td>
<td>None Known</td>
</tr>
<tr>
<td>None Known</td>
<td>Carcinogen - IARC Program</td>
</tr>
</tbody>
</table>

**Symptoms of Exposure**

**EYE & SKIN CONTACT:**
Primary Irritation to skin, defatting, dermatitis. Absorption thru skin increases exposure. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.

**INHALATION:**
Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver and lungs.

**SWALLOWING:** Keep away from food.

Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

**Medical Conditions Aggravated by Exposure**

**SUBCHRONIC HAZARDS:**
Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus. Chronic overexposure can cause damage to kidneys, blood, nerves, liver, & lungs.

Persons with asthma, chronic respiratory problems, severe skin, liver, heart, or kidney problems should avoid use.

**CANCER HAZARD:**
This product contains Toluene, known to the state of California to cause cancer, birth defects or other reproductive harm.

**Primary Route(s) of Entry**
- Inhalation, Ingestion, Absorption through skin.

**Emergency First Aid**

**EYE CONTACT:**
For eyes, immediately flush with plenty of water for 15 minutes & CALL A PHYSICIAN.

**SKIN CONTACT:**
In case of contact with skin, immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

Clothing before reuse. (Discard contaminated shoes.)

**INHALATION:**
After high vapor exposure, remove to fresh air. If breathing is difficult give oxygen. If breathing has stopped give artificial respiration. CALL A PHYSICIAN IMMEDIATELY!

**SWALLOWING:**
If swallowed, CALL A PHYSICIAN IMMEDIATELY!! Never given anything by mouth to an unconscious person. Do not induce vomiting. Have patient lie down and keep warm. Vomiting may lead to pneumonitis, which may be fatal.

### VI. Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstable</td>
<td>Heat, Sparks, Open Flames and electric equipment</td>
</tr>
<tr>
<td>XX Stable</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incompatibility</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Polymerization</td>
<td>Strong oxidizing agents such as permanganates, chromates and peroxides.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Will Occur</th>
<th>XX Will not Occur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photo-chemical Reactivity:</td>
<td>YES</td>
</tr>
</tbody>
</table>

**Hazardous Decomposition Products:**
Carbon Monoxide, Carbon Dioxide, Smoke, from burning.
VII. Environmental Protection Procedures

SPILL OR LEAK PROCEDURE:
Stop spill at source. Dike area & contain. Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

WASTE DISPOSAL METHOD:
Recycle or dispose of observing local, state, & Federal health, safety & pollution laws. If questions exist, contact the appropriate agencies.

VIII. Special Protection Information

<table>
<thead>
<tr>
<th>Eye Protection:</th>
<th>Skin Protection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety goggles or face shield</td>
<td>Solvent resistant gloves, apron &amp; footwear</td>
</tr>
<tr>
<td>Respiratory Protection (Specific Type)</td>
<td>Ventilation Recommended:</td>
</tr>
<tr>
<td>Self-contained respirator, positive pressure</td>
<td>Local exhaust, explosion-proof necessary</td>
</tr>
<tr>
<td>Other Protection:</td>
<td></td>
</tr>
<tr>
<td>Wash clothing before reuse.</td>
<td></td>
</tr>
</tbody>
</table>

IX. Special Precautions

HANDLING:
Isolate from oxidizers, heat, sparks, electric equipment and open flame. Use only with adequate ventilation.
Avoid breathing of vapor or spray mist. Do not get in eye, or skin or clothing. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze or weld. Empty container very hazardous! Continue all label precautions.

STORAGE:
Do not store above 49 C/120F. Store large amounts in structures made for OSHA Class I B liquids. Keep container tightly closed and upright when not in use to prevent leakage.

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