1. Product and Company Identification

Product Code: 805.16
Product Name: BRUSH CLEANER
Reference #: 805.16

Manufacturer Information

Company Name: W. M. Barr
2105 Channel Avenue
Memphis, TN  38113
Phone Number: (901)775-0100
Emergency Contact: 3E  24 Hour Emergency Contact           (800)451-8346
Information: W.M. Barr Customer Service              (800)398-3892
Web site address: www.wmbarr.com

Synonyms
QBC12, QBC12L, GBC12, GBC12L, QBW434

2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. N-Methyl-2-Pyrroldine {2-Pyrrolidinone, 1-Methyl-}</td>
<td>872-50-4</td>
<td>1.0 -10.0 %</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Dichloromethane (Methylene chloride)</td>
<td>75-09-2</td>
<td>1.0 -3.0 %</td>
<td>25 ppm</td>
<td>50 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td>3. Methanol (Methyl alcohol; Carbinol; Wood alcohol)</td>
<td>67-56-1</td>
<td>5.0 -35.0 %</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td>4. Toluene (Benzene, Methyl-; Toluol)</td>
<td>108-88-3</td>
<td>1.0 -10.0 %</td>
<td>200 ppm</td>
<td>50 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td>5. Tall oil acids</td>
<td>61790-12-3</td>
<td>1.0 -5.0 %</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>6. Potassium hydroxide</td>
<td>1310-58-3</td>
<td>1.0 -5.0 %</td>
<td>100 ppm</td>
<td>5 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td>7. Ethanol, 2-Amino- (Ethanolamine; Monoethanolamine; beta-Aminoethyl alcohol)</td>
<td>141-43-5</td>
<td>1.0 -5.0 %</td>
<td>3 ppm</td>
<td>3 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td>8. Raffinates (petroleum), sorption process</td>
<td>64741-85-1</td>
<td>20.0 -80.0 %</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>9. Acetone</td>
<td>67-64-1</td>
<td>15.0 -30.0 %</td>
<td>1000 ppm</td>
<td>500 ppm</td>
<td>No data.</td>
</tr>
</tbody>
</table>

3. Hazards Identification

Emergency Overview

Danger! Extremely flammable. Keep away from heat, sparks, flame and all other sources of ignition. Vapors may cause flash fire or ignite explosively. Vapors may travel long distances to other areas and rooms away from work site. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and all other sources of ignition anywhere in the structure, dwelling or building during use and until all vapors are
gone from the work site and all areas away from the work site. Keep away from electrical outlets and switches. Beware of static electricity that may be generated by synthetic clothing and other sources.

**OSHA Regulatory Status:**
This material is classified as hazardous under OSHA regulations.

**Potential Health Effects (Acute and Chronic)**

**Inhalation Acute Exposure Effects:**
Vapor harmful. May cause dizziness, headache, irritation of the respiratory tract, injuries to mucous membranes, watering of eyes, weakness, drowsiness, nausea, loss of coordination, numbness in fingers and arms and legs, depression of central nervous system, loss of appetite, blurred vision, fatigue, stupor, vomiting, stomach and intestinal pain, heartburn, confusion, brain damage, lower blood pressure, liver and kidney injury, hallucinations, irregular heartbeat, cold clammy extremities, diarrhea, blood disorders, spotted vision, dilation of pupils, visual disturbances, giddiness and intoxication, sleepiness, cough and dyspnea, nose tumors, hot flashes, arm leg and chest pain, rapid heartbeat, increase in carboxyhemoglobin levels which can cause stress to the cardiovascular system, convulsions, unconsciousness, coma, and death.

Elevated carboxyhemoglobin levels can be additive to the increase caused by smoking and other carbon monoxide sources.

Intentional misuse of this product by deliberately concentrating and inhaling can be harmful or fatal. May produce symptoms similar to those listed under ingestion.

**Skin Contact Acute Exposure Effects:**
This product may be absorbed through the skin. Harmful if absorbed through skin. May cause irritation, drying and cracking of skin, defatting of skin, dermatitis, itching, burning, redness, inflammation, swelling, tissue damage, keratitis, discomfort or pain, erythema, numbness in fingers and arms. May be absorbed readily to produce symptoms similar to those listed for ingestion. Prolonged or widespread contact may result in absorption of potentially harmful amounts of this material. May cause additional symptoms listed under inhalation.

**Eye Contact Acute Exposure Effects:**
This material is an eye irritant. May cause irritation and injury, redness, tearing, blurred vision, burns, conjunctivitis of eyes, corneal ulcerations of the eye. If not promptly removed, it will injure eye tissue, which may result in permanent damage.

**Ingestion Acute Exposure Effects:**
May be fatal or cause blindness if swallowed. May cause dizziness, headache, drowsiness, nausea, weakness, stupor, irritation to mouth throat and stomach, depression of the central nervous system, vomiting, muscle twitches, gastrointestinal irritation, diarrhea, loss of appetite, narcosis, red blood cell hemolysis, mental confusion, slurred speech, changes in white blood cells, fatigue, blindness, liver damage, kidney damage, heart damage, unconsciousness, convulsions, coma, and death.

May produce additional symptoms listed under inhalation. Liquid aspirated into lungs can cause chemical pneumonitis or pulmonary edema, which can be fatal.

**Chronic Exposure Effects:**
Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged skin contact may result in absorption of a harmful amount of this material. Prolonged or repeated contact may cause dermatitis. May cause weakness, skin irritation, nausea, numbness in hands and feet, permanent central nervous system changes, some loss of memory, gastric disturbances, giddiness, insomnia, brain damage, bone marrow damage, liver damage, kidney damage, hallucinations, blood disorders, irregular heartbeat, jaundice, anemia, inflammation, redness, eye irritation, pancreatic damage, visual impairment...
or blindness.

Prolonged or repeated contact may cause drying and cracking of skin. Repeated overexposure may cause red blood cell hemolysis.

Signs and Symptoms Of Exposure
Inhalation, ingestion, and dermal.

Medical Conditions Generally Aggravated By Exposure
Diseases of the skin, eyes, liver, kidneys, lungs, cardiovascular system, respiratory system, asthma, blood, inflammatory or fibrotic pulmonary disease, alcoholism, and rhythm disorders of the heart.

4. First Aid Measures

Emergency and First Aid Procedures

Inhalation:
If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

Skin Contact:
Irritation may result. Immediately wash with soap and water. Seek medical attention if irritation from contact persists.

Eye Contact:
Immediately flush with water, remove any contact lenses, continue flushing with water for at least 15 minutes, then get medical attention.

Ingestion:
Call your local poison control center, hospital emergency room, or physician immediately for instructions.

Note to Physician
Poison. This product contains methanol.

Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis.

Call your local poison control center for further information.

5. Fire Fighting Measures

Flammability Classification:
OSHA Class IB

Flash Pt:
4.00 F Method Used: TAG Closed Cup

Explosive Limits:
LEL: 1.00  UEL: No data.

Fire Fighting Instructions
Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spay to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

Flammable Properties and Hazards
No data available.

Extinguishing Media
Use carbon dioxide, dry powder, or foam.
Unsuitable Extinguishing Media
No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Cleanup:
Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area.

Small Spills:
Take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large Spills:
Dike far ahead of spill for later disposal.

7. Handling and Storage

Precautions To Be Taken in Handling
Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Precautions To Be Taken in Storing
Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)
For OSHA controlled work place and other regular users --Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provided protection against vapors.

Eye Protection
Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

Protective Gloves
Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product.

Other Protective Clothing
Various application methods can dictate the use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

Engineering Controls (Ventilation etc.)
Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas where vapors can accumulate and concentrate such as basements, bathrooms, or small enclosed areas. Whenever possible, use outdoors in an open area. If using indoors, open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- Stop -- ventilation is inadequate. Leave area immediately. If the work area is not well ventilated, then do not use this product. A dust mask does not provide protection against vapors.
9. Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid
Melting Point: No data.
Boiling Point: > 133.00 F
Autoignition Pt: No data.
Flash Pt: 4.00 F Method Used: TAG Closed Cup
Explosive Limits: LEL: 1.00 UEL: No data.
Specific Gravity (Water = 1): 0.000000
Bulk density: 6.52 LB/GA
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): No data.
Evaporation Rate (vs Butyl Acetate=1): No data.
Solubility in Water: No data.
Percent Volatile: 100.0 % by weight.
VOC / Volume: 780.0000 G/L
Corrosion Rate: No data.
pH: No data.

Appearance and Odor

No data available.

10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]
Conditions To Avoid - Instability
No data available.
Incompatibility - Materials To Avoid
Incompatible with strong oxidizing agents, strong caustics, acids, alkali, amines, reducing agents, aldehydes, ammonia, nitrogen peroxides and reactive metals.

Hazardous Decomposition Or Byproducts
Decomposition may produce carbon monoxide, carbon dioxide, acrid smoke, formaldehyde, oxides of nitrogen and irritating fumes, chlorine gas, small quantities of phosgene, and hydrogen chloride.

Hazardous Polymerization: Will occur [ ] Will not occur [ X ]
Conditions To Avoid - Hazardous Polymerization
No data available.

11. Toxicological Information

Carcinogenicity/Other Information
No data available.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. N-Methyl-2-Pyrrolidone {2-Pyrrolidinone, 1-Methyl-}</td>
<td>872-50-4</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>2. Dichloromethane {Methylene chloride}</td>
<td>75-09-2</td>
<td>Possible</td>
<td>2B</td>
<td>A3</td>
<td>Yes</td>
</tr>
<tr>
<td>3. Methanol {Methyl alcohol; Carbinol; Wood alcohol}</td>
<td>67-56-1</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>4. Toluene {Benzene, Methyl-; Toluol}</td>
<td>108-88-3</td>
<td>No</td>
<td>3</td>
<td>A4</td>
<td>No</td>
</tr>
<tr>
<td>5. Tall oil acids</td>
<td>61790-12-3</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>7. Ethanol, 2-Amino- {Ethanolamine; Monoethanolamine; beta-Aminoethyl alcohol}</td>
<td>141-43-5</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
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</table>
BRUSH CLEANER
MATERIAL SAFETY DATA SHEET

Hazardous Components (Chemical Name) | CAS #  | NTP | IARC | ACGIH | OSHA
--- | --- | --- | --- | --- | ---
8. Raffinates (petroleum), sorption process | 64741-85-1 | n.a. | n.a. | n.a. | n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method
Dispose in accordance with local, state, and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)
DOT Proper Shipping Name | No data available.

Additional Transport Information
The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

15. Regulatory Information

US EPA SARA Title III

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. N-Methyl-2-Pyrrolidone (2-Pyrrolidone, 1-Methyl-)</td>
<td>872-50-4</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>2. Dichloromethane (Methylene chloride)</td>
<td>75-09-2</td>
<td>No</td>
<td>Yes 1000 LB</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3. Methanol (Methyl alcohol; Carbinol; Wood alcohol)</td>
<td>67-56-1</td>
<td>No</td>
<td>Yes 5000 LB</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>4. Toluene (Benzene, Methyl-; Toluol)</td>
<td>108-88-3</td>
<td>No</td>
<td>Yes 1000 LB</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>5. Tall oil acids</td>
<td>61790-12-3</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>6. Potassium hydroxide</td>
<td>1310-58-3</td>
<td>No</td>
<td>Yes 1000 LB</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>7. Ethanol, 2-Amino- (Ethanolamine; Monoethanolamine; beta-Aminoethyl alcohol)</td>
<td>141-43-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>8. Raffinates (petroleum), sorption process</td>
<td>64741-85-1</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>9. Acetone</td>
<td>67-64-1</td>
<td>No</td>
<td>Yes 5000 LB</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

Sec.302: EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.

Sec.304: EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.

Sec.313: EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.

Sec.110: EPA SARA 110 Superfund Site Priority Contaminant List

EPA Hazard Categories:
This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[ ] Yes [X] No Acute (immediate) Health Hazard
[ ] Yes [X] No Chronic (delayed) Health Hazard
[ ] Yes [X] No Fire Hazard
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