1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 2465.2
Product Name: Goof Off Heavy Duty 3% VOC

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
Preparer Name: W.M. Barr EHS Dept (901)775-0100
Intended Use: Mult-Purpose Remover for tar, ink, paint, adhesive, etc.

Synonyms

2. HAZARDS IDENTIFICATION

GHS Classification
Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 4
Serious Eye Damage/Eye Irritation, Category 2A

Key word: Warning
GHS hazard phrase: Harmful if inhaled
Warning: Harmful if swallowed
Warning: Harmful in contact with skin
Warning: Causes serious eye irritation

GHS Hazard Phrases
H332: Harmful if inhaled.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H319: Causes serious eye irritation.

GHS Precaution Phrases
Avoid breathing mist/vapors/spray.   Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.
P362+364: Take off contaminated clothing and wash it before reuse.
GHS Response Phrases

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P321: Specific treatment (see ... on this label) ... reference to supplemental first aid instruction - if immediate administration of antidote is required.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases

P501: Dispose of contents/container to ... (in accordance with local/regional/national/international regulation).

Potential Health Effects (Acute and Chronic)

This material has not been tested as a whole for health effects. Effects listed are those of the individually listed ingredients in this msds.

Eyes:
May cause severe irritation. May cause moderate corneal injury. Effects may include discomfort or pain, and redness. Effects may be slow to heal.

Skin:
Brief contact may cause slight skin irritation with local redness. Repeated exposure may cause irritation, even a burn. May cause more severe response on covered skin (under clothing, gloves).

Inhalation:
When used as directed, the consumer is not expected to experience any exposure effects. Excessive exposure may cause irritation to the upper respiratory tract. Symptoms may include a headache, dizziness, or nausea.

Ingestion:
Moderately toxic if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury. However, swallowing larger amounts may cause injury.

Target Organs: Blood (Hemolysis), Kidneys, Liver, Eyes, Skin, Central Nervous System.

Primary Routes of Entry: Eyes, Skin, Inhalation, Ingestion

Medical Conditions Generally Aggravated By Exposure

None known.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ethanol, 2-Butoxy- (Ethylene glycol n-butyl ether, (a glycol ether))</td>
<td>111-76-2</td>
<td>1.0 -5.0 %</td>
<td>KJ8575000</td>
</tr>
<tr>
<td>2. Benzenemethanol (Benzyl alcohol)</td>
<td>100-51-6</td>
<td>5.0 -10.0 %</td>
<td>DN3150000</td>
</tr>
<tr>
<td>3. Diethylene glycol monobutyl ether (2-(2-Butoxyethoxy)ethanol) (a glycol ether)</td>
<td>112-34-5</td>
<td>1.0 -5.0 %</td>
<td>KJ9100000</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Emergency and First Aid Procedures

Skin:
Remove contaminated clothing. Immediately wash skin thoroughly with large amounts of water and mild soap, if available. Seek medical attention if irritation develops or persists.

Eyes:
Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes. Seek medical attention.

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:
If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Signs and Symptoms Of Exposure
See Potential Health Effects.

5. FIRE FIGHTING MEASURES

Flammability Classification: Not flammable or combustible
Flash Pt: > 200 F Method Used: Setaflash Closed Cup (Rapid Setaflash)
Explosive Limits: LEL: none UEL: none
Autoignition Pt: No data available.

Fire Fighting Instructions
Material is not flammable or combustible. No special fire fighting instructions required.

Flammable Properties and Hazards
No data available.

Hazardous Combustion Products
Material should not burn. Combustion product will be from surrounding materials involved in fire.

Suitable Extinguishing Media
Non-combustible liquid - use extinguishing media for underlying cause of fire.

Unsuitable Extinguishing Media
None known.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled
Prevent entry into waterways, sewers, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to compatible containers for proper disposal. For large spills, dike ahead of the spill.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling
Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. A source of clean water should be kept in the immediate work area for flushing of the eyes and skin.

Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
Precautions To Be Taken in Storing

Keep containers closed when not in use. Store in a cool, dry place, out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ethanol, 2-Butoxy- (Ethylene glycol n-butyl ether, (a glycol ether))</td>
<td>111-76-2</td>
<td>50 ppm</td>
<td>20 ppm</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Benzenemethanol (Benzyl alcohol)</td>
<td>100-51-6</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>3. Diethylene glycol monobutyl ether (2-(2-Butoxyethoxy)ethanol (a glycol ether))</td>
<td>112-34-5</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Respiratory Equipment (Specify Type)

When used by the consumer following directions for use and with adequate ventilation, respiratory protection is not expected to be needed.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

If the work area is not properly ventilated to keep airborne levels below their exposure limits, you must use a properly fitted and maintained NIOSH approved respirator for organic vapors. A dust mask does not provide protection against vapors.

Eye Protection

Where contact with the eyes or face is likely from spraying or splashing, safety glasses, a faceshield or chemical goggles should be worn to prevent eye contact.

Protective Gloves

When used as directed, protective gloves should not be required. For prolonged or repeated contact, wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as natural rubber or nitrile rubber provide protection. Glove selection should be based on chemicals being used and conditions of use.

Consult your glove supplier for additional information.

Other Protective Clothing

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

Engineering Controls (Ventilation etc.)

Ventilation is normally not required when handling or using this product to keep exposure to airborne contaminants below the exposure limit.

Good general ventilation should be sufficient to control airborne levels.

Work/Hygienic/Maintenance Practices

Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area. Discard any clothing or other protective equipment that cannot be decontaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical States:</th>
<th>[ ] Gas</th>
<th>[X] Liquid</th>
<th>[ ] Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point:</td>
<td>32 F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>210 F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Pt:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Pt:</td>
<td>&gt; 200 F</td>
<td>Method Used: Setaflash Closed Cup (Rapid Setaflash)</td>
<td></td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>LEL: none UEL: none</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Specific Gravity (Water = 1): 0.997
Density: 8.3 LB/GL
Vapor Pressure (vs. Air or mm Hg): < 0.1 MM HG
Vapor Density (vs. Air = 1): > 1
Evaporation Rate: < 1
Solubility in Water: Complete
Percent Volatile: ~ 87 % by weight.
VOC / Volume: 3.0 % WT
pH: 8.3 - 8.7
Appearance and Odor
Slight yellow to clear, transparent, almond-like odor.

10. STABILITY AND REACTIVITY

Stability: Unstable [ ] Stable [ X ]
Conditions To Avoid - Instability
None known.

Incompatibility - Materials To Avoid
Strong oxidizing agents, isocyanates, acetaldehyde, aluminum alkyl compounds and strong mineral acids.

Hazardous Decomposition Or Byproducts
Carbon monoxide, carbon dioxide

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [ X ]
Conditions To Avoid - Hazardous Reactions
None known.

11. TOXICOLOGICAL INFORMATION

Toxicological Information
Material has not been tested as a whole. Data is for individual ingredients.

CAS# 111-76-2:
Mutagenicity; Mutation test: DNA damage., Route of Application: Unreported., Mouse, 3150. mg/kg.
Result:
Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).
Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Acute toxicity, LD50, Oral, Rat, 470.0 MG/KG.
Result:
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
- Dow Chemical Company Reports., Dow Chemical USA, Health and Environment Research, Toxicology Research Lab, Midland, MI 48640, Vol/p/yr: MSD-46,

Acute toxicity, LC50, Inhalation, Rat, 450.0 PPM, 4 H.
Result:
Behavioral: Ataxia.
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Licensed to W.M. Barr and Company: MIRS MSDS, (c) A V Systems, Inc.
Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, Severe.
Result:
Effects on Newborn: Apgar score (human only).
Effects on Newborn: Other neonatal measures or effects.
Effects on Newborn: Drug dependency.

CAS# 100-51-6:
Mutagenicity:, Mutation test: DNA damage., Rat, 10.00 MMOL/L, Cell Type: liver..
Result:
Behavioral: Fluid intake.
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Mutagenicity:, Mutation test: Mutation in microorganisms., Mouse, 250.0 MG/L, Cell Type: lymphocyte..
Result:
Blood: Changes in erythrocyte (RBC) count.

Mutagenicity:, Mutation test: Cytogenetic analysis., Species: Hamster, 4.000 UG/L, Cell Type: ovary..
Result:
Kidney, Ureter, Bladder: Hematuria.
Blood: Other changes.
Related to Chronic Data - death.

Acute toxicity, LD50, Oral, Rat, 1230. MG/KG.
Result:
Behavioral: Somnolence (general depressed activity).
Behavioral: Excitement.
Behavioral: Coma.
- Food and Cosmetics Toxicology., For publisher information, see FCTOD7, London United Kingdom, Vol/p/yr: 2,327, 1964

Standard Draize Test, Skin, Human, 16.00 MG, 48 H, Mild.
Result:
Blood: Other hemolysis with or without anemia.
Blood: Other changes.
Biochemical: Metabolism (Intermediary): Other proteins.

Standard Draize Test, Skin, Species: Rabbit, 100.0 MG, 24 H, Moderate.
Result:
Specific Developmental Abnormalities: Musculoskeletal system.
Specific Developmental Abnormalities: Other developmental abnormalities.
CAS# 112-34-5:
Acute toxicity, LD50, Oral, Rat, 5660. MG/KG.
Result:
Brain and Coverings: Other degenerative changes.
Biochemical: Metabolism (intermediary): Other.
- Dow Chemical Company Reports., Dow Chemical USA, Health and Environment Research, Toxicology
  Research Lab, Midland, MI 48640, Vol/p/yr: MSD-41,

Standard Draize Test, Eyes, Species: Rabbit, 20.00 MG, Severe.
Result:
Behavioral: Anticonvulsant.
  60611, Vol/p/yr: 29,1363, 1946

Chronic Toxicological Effects
Material has not been tested as a whole. Data is for individual ingredients.

Carcinogenicity/Other Information
IARC 2B - Possibly Carcinogenic to Humans
ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

<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. Ethanol, 2-Butoxy- {Ethylene glycol n-butyl ether, (a glycol ether)}</td>
<td>111-76-2</td>
<td>n.a.</td>
<td>3</td>
<td>A3</td>
<td>n.a.</td>
</tr>
<tr>
<td>2. Benzenemethanol (Benzy alcohol)</td>
<td>100-51-6</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>3. Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol (a glycol ether)}</td>
<td>112-34-5</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>4. Propylene glycol phenyl ether {not 313)}</td>
<td>770-35-4</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

General Ecological Information
Not determined for this product as a whole.

Results of PBT and vPvB assessment
CAS# 111-76-2:
LC50, Water Flea (Daphnia magna), 1720. MG/L, 24 H, Intoxication,, Water temperature: 20 C - 22 C C, pH: 7.70, Hardness: 16.00 dH.
Result:
Age Effects.
- Results of the Damaging Effect of Water Pollutants on Daphnia magna (Befunde der Schadwirkung
  Wassergefährdender Stoffe Gegen Daphnia magna), Bringmann, G., and R. Kuhn, 1977

CAS# 100-51-6:
LC50, Fathead Minnow (Pimephales promelas), juvenile(s), 770000. UG/L, 1 H, Mortality, Water temperature: 18 C - 22 C C.
Result:
Sex Effects.
  Walbridge, 1976

LC50, Bluegill (Lepomis macrochirus), 10000. UG/L, 96 H, Mortality, Water temperature: 23 C C, pH: 7.90,
Hardness: 55.00 MG/L.
Result:
Age Effects.

CAS# 112-34-5:
LC50, Bluegill (Lepomis macrochirpus), 1300000. UG/L, 96 H, Mortality, Water temperature: 23 C, pH: 7.90, Hardness: 55.00 MG/L.
Result:
Abnormal development.

LC50, Water Flea (Daphnia magna), 2850. MG/L, 24 H, Intoxication., Water temperature: 20 C - 22 C, pH: 7.70, Hardness: 16.00 dH.
Result:
Sex Effects.
- Results of the Damaging Effect of Water Pollutants on Daphnia magna (Befunde der Schadwirkung Wassergefährdender Stoffe Gegen Daphnia magna), Bringmann, G., and R. Kuhn, 1977

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Dispose of in accordance with all applicable local, state, and federal regulations. Do not dump into sewers or allow to enter waterways.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT)
DOT Proper Shipping Name
Not regulated by D.O.T.

Additional Transport Information
The shipper/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. Ethanol, 2-Butoxy- (Ethylene glycol n-butyl ether, (a glycol ether))</td>
<td>111-76-2</td>
<td>No</td>
<td>No</td>
<td>Yes-Cat. N230</td>
<td>No</td>
</tr>
<tr>
<td>2. Benzenemethanol  (Benzyl alcohol)</td>
<td>100-51-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3. Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>No</td>
<td>No</td>
<td>Yes-Cat. N230</td>
<td>No</td>
</tr>
<tr>
<td>{2-(2-Butoxyethoxy)ethanol {(a glycol ether)}</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Propylene glycol phenyl ether {(not 313)}</td>
<td>770-35-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
### Other US EPA or State Lists

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>CAA HAP,ODC</th>
<th>CWA NPDES</th>
<th>TSCA</th>
<th>CA PROP 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ethanol, 2-Butoxy- (Ethylene glycol n-butyl ether, (a glycol ether))</td>
<td>111-76-2</td>
<td>HAP</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>2. Benzenemethanol (Benzyl alcohol)</td>
<td>100-51-6</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>3. Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>HAP</td>
<td>No</td>
<td>Inventory, 4 Test</td>
<td>No</td>
</tr>
<tr>
<td>(2-(2-Butoxyethoxy)ethanol (a glycol ether))</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Propylene glycol phenyl ether {(not 313)}</td>
<td>770-35-4</td>
<td>No</td>
<td>No</td>
<td>Inventory, 8A PAIR, 8D TERM</td>
<td>No</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

### TSCA (Toxic Substances Control Act) Lists:

- **Inventory:** Chemical Listed in the TSCA Inventory.
- **5A(2):** Chemical Subject to Significant New Rules (SNURS)
- **6A:** Commercial Chemical Control Rules
- **8A:** Toxic Substances Subject To Information Rules on Production
- **8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- **8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- **8C:** Records of Allegations of Significant Adverse Reactions
- **8D:** Health and Safety Data Reporting Rules
- **8D TERM:** Health and Safety Data Reporting Rule Terminations
- **12(b):** Notice of Export

### Other Important Lists:

- **CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical
- **CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant
- **CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
- **CA PROP 65:** California Proposition 65

### International Regulatory Lists:

### EPA Hazard Categories:

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

- [X] Yes  [ ] No  Acute (immediate) Health Hazard
- [X] Yes  [ ] No  Chronic (delayed) Health Hazard
- [ ] Yes  [X] No  Fire Hazard
- [ ] Yes  [X] No  Sudden Release of Pressure Hazard
- [ ] Yes  [X] No  Reactive Hazard
**Company Policy or Disclaimer**

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

**Revision Date:** 11/25/2013

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required