Material Safety Data Sheet

Product code: JCUSW002194-0543
Revision date: 09-10-2008***

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Supplier:
Johnson and Johnson Consumer Companies, Inc.
199 Grandview Road
Distributor
Skillman, NJ
08558-9418

Customer service telephone: 1-800-526-3967
For 24-hour emergency assistance, call the 3E Company at 1 (877) 236-9871. Provide the technician with the following product tracking code: 2277.

Emergency telephone number:
Product name: LISTERINE® MOUTHWASHES AND MISTS
SYNONYMS:
LISTERINE® ADVANCED WITH TARTAR PROTECTION ARTIC MINT® ADVANCED WITH TARTAR PROTECTION CITRUS® COOL MINT® FRESH BURSTCONTROL LISTERINE® CITRUS LISTERINE® MINT LISTERINE® TOOTH DEFENSE CITRUS LISTERINE® ADVANCED WITH TARTAR PROTECTION ARTIC MINT® PocketMist™ COOL MINT® PocketMist™ FRESH CITRUS

Product code: JCUSW002194-0543
Identified use: For external use only.

2. HAZARDS IDENTIFICATION

Emergency overview: Flammable. This product may cause eye, skin or respiratory irritation.

Properties affecting health: This product contains ethanol which can cause liver changes, central nervous system effects, and birth defects of the developing fetus.

This material is a controlled product under WHMIS.

Principle routes of exposure:
Eye Contact: Contact with eyes may cause irritation.
Skin contact: May cause skin irritation.
Ingestion: Ingestion of larger amounts may cause depression to the central nervous system (e.g. dizziness, headache).
Inhalation: Overexposure may cause drowsiness, dizziness, difficulty breathing and allergic reactions.

Physico-chemical properties: No hazards resulting from the material as supplied

Hazard information:
Target Organ(s): Not available.
Reproductive effects: Ingestion of large quantities may cause fetal alcohol syndrome (due to alcohol content).
Mutagenic effects: No effects expected.
Sensitization: Sensitization is not expected.

Signs and symptoms:
None.

Medical conditions aggravated by exposure:
None known.
3. COMPOSITION/INFORMATION ON INGREDIENTS

This product formulation contains no ingredients at their given percentages that are considered hazardous to your health.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Synonyms</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ALCOHOL (DENATURED)</td>
<td>64-17-5</td>
<td></td>
<td>20-30</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention.

Skin contact: In the case of skin irritation or allergic reactions see a physician.

Ingestion: If ingested, seek medical attention immediately and show the label.

Inhalation: Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention.

Protection of first-aiders: Wear suitable gloves and eye/face protection.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use any extinguishing media which is suitable for the surrounding fire.

Extinguishing media which must not be used for safety reasons: None.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire fighting if necessary.

Specific methods: None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation.

Environmental precautions: No special environmental precautions required.

Methods for cleaning up: Wipe up with absorbent material (e.g. cloth, fleece).

7. HANDLING AND STORAGE

Handling: No special technical protective measures required.

Technical measures/precautions: None under normal processing.

Safe handling advice: None.

Storage: Store per labeled instructions.

Technical measures/storage conditions: Keep away from heat and sources of ignition.

Incompatible products: None.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH (TWA - 8hr)</th>
<th>ACGIH (STEL)</th>
<th>ACGIH (Ceiling)</th>
<th>Skin Absorption</th>
<th>OSHA (TWA - 8hr)</th>
<th>OSHA (Ceiling)</th>
<th>OSHA (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ALCOHOL (DENATURED)</td>
<td>1000 ppm***</td>
<td></td>
<td></td>
<td></td>
<td>1000 ppm</td>
<td>1900 mg/m***</td>
<td></td>
</tr>
<tr>
<td>(20-30%)</td>
<td>64-17-5</td>
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</table>

Engineering controls: Ensure adequate ventilation.

Personal protective equipment: Eye protection recommended when manufacturing product.
Hand protection:  Protective gloves recommended when manufacturing product.
Skin and body protection: Wear suitable protective clothing. Wear suitable gloves and eye/face protection.
Respiratory protection: None required.
Other/general protection: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical state: Liquid
Color: Varies***
Odor: Various*** ***
Flavor: Various*****

Important Health Safety and Environmental Information

Flash point: 92.7 °F  33.7 °C  Boiling point/range: No information available
pH: 4.1*** - 4.3***  Water solubility: Soluble

Other Information

Explosivity: None.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Materials to avoid: None known
Conditions to avoid: None known.
Hazardous polymerization: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Eye contact  May cause eye irritation.
Skin contact  May cause skin irritation.
Ingestion  May be harmful if swallowed.
Inhalation  May be harmful if inhaled.

<table>
<thead>
<tr>
<th>Components</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 (mg/m³) Inhalation</th>
<th>LC50 (ppm) Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ALCOHOL (DENATURED) (20-30%)</td>
<td>= 7060 mg/kg Rat***</td>
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<tr>
<td>64-17-5</td>
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Sub-Chronic/Chronic Toxicity
No repeat dose data available.

Specific effects
Target Organ(s)  Not available.
Developmental effects  Not available.
11. TOXICOLOGICAL INFORMATION

Reproductive effects: Not available.
Carcinogenic effects: Not expected to be carcinogenic.

<table>
<thead>
<tr>
<th>ETHYL ALCOHOL (DENATURED)</th>
<th>1***</th>
<th>X***</th>
</tr>
</thead>
<tbody>
<tr>
<td>(20-30%)</td>
<td></td>
<td></td>
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<td>64-17-5</td>
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</table>

Genotoxic effects: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
- Ecotoxicity effects: No data is available on the product itself.
- Aquatic toxicity effects: No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate US, Federal, State and International regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: None.

14. TRANSPORT INFORMATION

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Components</th>
<th>SARA 313</th>
<th>SARA 302</th>
<th>CERCLA</th>
<th>CEPA</th>
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<tbody>
<tr>
<td>ETHYL ALCOHOL (DENATURED) (20-30%)</td>
<td></td>
<td></td>
<td></td>
<td>Listed***</td>
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SARA (311, 312) hazard class
- Immediate health: None.
- Delayed health: None.
- Fire: None.
- Sudden Release of Pressure Hazard: None.
- Reactivity: None.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>NJRTK</th>
<th>PARTK</th>
<th>MARTK</th>
<th>RIRTK</th>
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</thead>
<tbody>
<tr>
<td>ETHYL ALCOHOL (DENATURED) (20-30%)</td>
<td>64-17-5</td>
<td>Listed***</td>
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</tbody>
</table>

International Inventories
<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
</tr>
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<tr>
<td>ETHYL ALCOHOL (DENATURED) (20-30%)</td>
<td>X***</td>
<td>X***</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**WHMIS:**
- **WHMIS trade secret:** None.
- **WHMIS hazard class:** B2 Flammable Liquids

**Notes:**
1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensations and Liability Act.
4. TSCA = Toxic Substance Control Act.
5. WHMIS = Canadian Workplace Hazardous Materials Information System.
6. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**16. OTHER INFORMATION**

This data sheet contains changes from the previous version in section(s):
None.

**MSDS format:**
- North American Format - U.S. and Canada
  This Material Safety Data Sheet was prepared in accordance with ANSI Z400.1-2004.

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**End of Safety Data Sheet**