Material Safety Data Sheet
Clario Alcohol Free Foaming Hand Sanitizer

1. Product and company identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>Clario Alcohol Free Foaming Hand Sanitizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier</td>
<td>Betco Corporation</td>
</tr>
<tr>
<td></td>
<td>1001 Brown Avenue</td>
</tr>
<tr>
<td></td>
<td>Toledo, Ohio 43607</td>
</tr>
<tr>
<td></td>
<td>(800) 333-2156</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Betco Corporation</td>
</tr>
<tr>
<td></td>
<td>1001 Brown Avenue</td>
</tr>
<tr>
<td></td>
<td>Toledo, Ohio 43607</td>
</tr>
<tr>
<td>Code</td>
<td>778</td>
</tr>
<tr>
<td>MSDS #</td>
<td>778</td>
</tr>
<tr>
<td>Validation date</td>
<td>10/11/2012</td>
</tr>
<tr>
<td>Print date</td>
<td>10/11/2012</td>
</tr>
<tr>
<td>In case of emergency</td>
<td>Chemtrec (800) 424-9300</td>
</tr>
<tr>
<td>Product type</td>
<td>Liquid.</td>
</tr>
</tbody>
</table>

2. Hazards identification

Emergency overview
   Physical state : Liquid.
   Color          : Blue, [Light]
   Odor           : Fruity.

Hazard statements
   NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

OSHA/HCS status
   While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Routes of entry
   Eye contact. Ingestion.

Potential acute health effects
   Inhalation        : No known significant effects or critical hazards.
   Ingestion         : No known significant effects or critical hazards.
   Skin              : No known significant effects or critical hazards.
   Eyes              : No known significant effects or critical hazards.

Potential chronic health effects
   Chronic effects   : No known significant effects or critical hazards.
   Carcinogenicity   : No known significant effects or critical hazards.
   Mutagenicity      : No known significant effects or critical hazards.
   Teratogenicity    : No known significant effects or critical hazards.
   Developmental effects : No known significant effects or critical hazards.
   Fertility effects : No known significant effects or critical hazards.
   Medical conditions aggravated by over-exposure : None known.

See toxicological information (Section 11)
3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact  Get medical attention if symptoms occur. In case of contact with eyes, rinse immediately with plenty of water.

Skin contact  Wash clothing before reuse. Clean shoes thoroughly before reuse. Seek medical attention if symptoms persist.

Inhalation  Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion  Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders  No action shall be taken involving any personal risk or without suitable training.

Notes to physician  No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product  In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable  Use an extinguishing agent suitable for the surrounding fire.

Not suitable  None known.

Special exposure hazards  Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous thermal decomposition products  No specific data.

Special protective equipment for fire-fighters  Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions  No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions  Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill  Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill  Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
7. Handling and storage

Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state: Liquid.
Flash point: Closed cup: Not applicable. [Product does not sustain combustion.]
Color: Blue. [Light]
Odor: Fruity.
pH: 6.5 to 8
Relative density: 1
Dispersibility properties: Easily dispersible in the following materials: cold water and hot water.
9. Physical and chemical properties

Solubility: Easily soluble in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability: The product is stable.
Conditions to avoid: No specific data.
Incompatible materials: No specific data.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity
Conclusion/Summary: Not available.

Chronic toxicity
Conclusion/Summary: Not available.

Irritation/Corrosion
Conclusion/Summary: Not available.

Sensitizer
Conclusion/Summary: Not available.

Carcinogenicity
Conclusion/Summary: Not available.

Mutagenicity
Conclusion/Summary: Not available.

Teratogenicity
Conclusion/Summary: Not available.

Reproductive toxicity
Conclusion/Summary: Not available.

12. Ecological information

Ecotoxicity
Conclusion/Summary: No known significant effects or critical hazards.

Aquatic ecotoxicity
Conclusion/Summary: Not available.

Persistence/degradability
Conclusion/Summary: Not available.

13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Clario Alcohol Free Foaming Hand Sanitizer

13. Disposal considerations

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
<th>Label</th>
<th>Additional information</th>
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</thead>
<tbody>
<tr>
<td>DOT Classification</td>
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<td>-</td>
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<tr>
<td>TDG Classification</td>
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<tr>
<td>Mexico Classification</td>
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<tr>
<td>ADR/RID Class</td>
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<td>IMDG Class</td>
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<tr>
<td>IATA-DGR Class</td>
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<td>-</td>
</tr>
</tbody>
</table>

PG* : Packing group

15. Regulatory information

HCS Classification : Not regulated.

U.S. Federal regulations :
- TSCA 8(a) IUR Exempt/Partial exemption: Not determined
- United States inventory (TSCA 8b): Not determined.
- SARA 302/304/311/312 extremely hazardous substances: No products were found.
- SARA 302/304 emergency planning and notification: No products were found.
- SARA 302/304/311/312 hazardous chemicals: No products were found.
- SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

State regulations
- Massachusetts : None of the components are listed.
- New York : None of the components are listed.
- New Jersey : None of the components are listed.
- Pennsylvania : None of the components are listed.
- California Prop. 65 : None of the components are listed.
Clario Alcohol Free Foaming Hand Sanitizer

15. Regulatory information

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ALCOHOL</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

**Canada inventory**

**International regulations**

**International lists**
- Australia inventory (AICS): Not determined.
- China inventory (IECSC): Not determined.
- Japan inventory: Not determined.
- Korea inventory: Not determined.
- New Zealand Inventory of Chemicals (NZIoC): Not determined.
- Philippines Inventory (PICCS): Not determined.

**Chemical Weapons Convention List Schedule I Chemicals**
- Not listed

**Chemical Weapons Convention List Schedule II Chemicals**
- Not listed

**Chemical Weapons Convention List Schedule III Chemicals**
- Not listed

16. Other information

**Label requirements**

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

**Hazardous Material Information System (U.S.A.)**

Health: 0

Flammability: 0

Physical hazards: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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National Fire Protection Association (U.S.A.)

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16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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Date of previous issue : 12/19/2011.
Version : 0.02
Prepared by : Not available.
\* Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.