1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: AATCC High Efficiency (HE) Standard Reference Detergent WITHOUT Brightener (WOB)
SDS Number: FG4823
Revision Date: 3/6/2020
Version: 3
Supplier Details: AATCC
1 Davis Dr
Research Triangle Park, NC 27709
Emergency: 800 424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

Classification of Substance
GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Skin corrosion/irritation, 3

GHS Label Elements, Including Precautionary Statements
GHS Signal Word: Warning
GHS Hazard Pictograms:

GHS Hazard Statements:
H319 - Causes serious eye irritation
H316 - Causes mild skin irritation

GHS Precautionary Statements:
P102 - Keep out of reach of children.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

<table>
<thead>
<tr>
<th>Cas#</th>
<th>%</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>25155-30-0</td>
<td>20-25%</td>
<td>Sodium dodecylbenzenesulfonate</td>
</tr>
<tr>
<td>9004-82-4</td>
<td>5-10%</td>
<td>Poly(oxy-1,2-ethanediyl).alpha.-sulfo.-omega.-(dodecyloxy)-, sodium salt</td>
</tr>
<tr>
<td>64-17-5</td>
<td>1-3%</td>
<td>Ethanol</td>
</tr>
<tr>
<td>68439-46-3</td>
<td>10-15%</td>
<td>Alcohols, C9-11, ethoxylated</td>
</tr>
</tbody>
</table>

4 FIRST AID MEASURES

Inhalation: If inhaled move to fresh air. If not breathing, give artificial respiration.
Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If irritation persist, obtain medical attention.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irritation. Contact a physician if redness persists.

Ingestion: Do not induce vomiting without medical advice. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water.

5  FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Extinguishing Methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.

Specific hazards during fire-fighting: Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.

Special protective equipment: Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6  ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment. (See Section 8.) Do not get into eyes, or skin. Wear respiratory protection. Avoid breathing vapors. Ensure adequate ventilation.

Environmental Precautions: Prevent uncontrolled discharge of product into the environment if safe to do so.

Methods and Materials for Containment and Cleanup: In case of large spill, soak up with inert absorbent material (e.g. sand, silica gel, sawdust). Sweep up and shovel. Place in a non-leaking container for proper disposal according to Federal, State, and Local regulations.

7  HANDLING AND STORAGE

Handling Precautions: Wear personal protective equipment when handling product. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.

Storage Requirements: Observe label precautions. Keep containers tightly closed in a dry, cool and well ventilated place. Do not allow product to freeze.

8  EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in well ventilated area.

Personal Protective Equipment: HMIS PP, C | Safety Glasses, Gloves, Apron.

Use good chemical hygiene practice. Avoid contact with skin and eyes. Avoid inhalation of vapors.

Ethanol cas#: (64-17-5) [1-3%]

Components with workplace control parameters

TWA 1,000 ppm  USA. ACGIH Threshold Limit Values (TLV)

Upper Respiratory Tract irritation

Confirmed animal carcinogen with unknown relevance to humans
**PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity or Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7-9</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomp Temp</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Solubility</td>
<td>Dispersible in water</td>
</tr>
<tr>
<td>Freezing or Melting Point</td>
<td>32F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**STABILITY AND REACTIVITY**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>no data available</td>
</tr>
<tr>
<td>Chemical Stability</td>
<td>stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Conditions to Avoid Identification</td>
<td>no data available</td>
</tr>
<tr>
<td>Materials to Avoid Identification</td>
<td>strong oxidizing agents</td>
</tr>
<tr>
<td>Hazardous Decomposition</td>
<td>Oxides of carbon</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>will not occur</td>
</tr>
</tbody>
</table>

**TOXICOLOGICAL INFORMATION**

Sodium dodecylbenzenesulfonate cas#: (25155-30-0) [20-25%]

Information on toxicological effects

Acute toxicity:
Behavioral: Somnolence (general depressed activity). Diarrhoea
Inhalation LC50 no data available
Dermal LD50
Other information on acute toxicity

Skin corrosion or irritation: Skin - rabbit - Skin irritation - 24 h

Serious Eye Damage or Eye Irritation: Eyes - rabbit - Severe eye irritation - 24 h

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
AATCC High Efficiency (HE) Standard Reference Detergent WITHOUT Brightener (WOB)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available
Teratogenicity: no data available

Specific target organ toxicity - Single exposure (Globally Harmonized System):
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - Repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion Toxic if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:
RTECS: DB6825000

Ethanol cas#: (64-17-5) [1-3%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 7,060 mg/kg Remarks: Lungs, Thorax, or Respiration:Other changes.
LC50 Inhalation - rat - 10 h - 20000 ppm
Dermal: no data available

Skin corrosion or irritation: Skin - rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious Eye Damage or Eye Irritation: Eyes - rabbit Result: Mild eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
Carcinogenicity - mouse - Oral:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available
Reproductive toxicity - Human - female - Oral: 
Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug 
dependence.

Specific target organ toxicity - Single exposure: no data available
Specific target organ toxicity - Repeated exposure: no data available
Aspiration hazard: no data available

Additional Information:
RTECS: KQ6300000
Central nervous system depression, narcosis. Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological 
properties have not been thoroughly investigated.
Stomach - Irregularities - Based on Human Evidence

ECOLOGICAL INFORMATION

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Sodium dodecylbenzenesulfonate  cas#: (25155-30-0) [20-25%]
Information on ecological effects

Toxicity:
Toxicity to fish mortality NOEC - Oncorhynchus kisutch - 3.1 mg/l - 3 d.
mortality LOEC - Oncorhynchus kisutch - 5.6 mg/l - 3 d
Toxicity to daphnia mortality NOEC - Daphnia - 4 mg/l - 7 d.
and other aquatic invertebrates

Persistence and degradability: no data available
Bioaccumulative potential: Bioaccumulation Lepomis macrochirus - 28 d Bioconcentration factor (BCF): 220
Mobility in soil: no data available
PBT and vPvB assessment: no data available
Other adverse effects: Avoid release to the environment.

no data available

Ethanol  cas#: (64-17-5) [1-3%]
Information on ecological effects

Toxicity: no data available
Persistency and degradability: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available
AATCC High Efficiency (HE) Standard Reference Detergent WITHOUT Brightener (WOB)

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13 DISPOSAL CONSIDERATIONS

14 TRANSPORT INFORMATION

DOT (US): Not Dangerous goods

IMDG: Not Dangerous goods

IATA: Not Dangerous goods

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

<table>
<thead>
<tr>
<th>Component</th>
<th>CODES</th>
</tr>
</thead>
<tbody>
<tr>
<td>RQ(1000LBS), Sodium dodecylbenzenesulfonate (25155-30-0) [20-25%]</td>
<td>CERCLA, CSWHS, MASS, PA, TSCA</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.- (dodecyloxy)-, sodium salt (9004-82-4) [5-10%]</td>
<td>TSCA</td>
</tr>
<tr>
<td>Ethanol (64-17-5) [1-3%]</td>
<td>MASS, OSHAWAC, PA, TSCA, TXAIR</td>
</tr>
<tr>
<td>Alcohols, C9-11, ethoxylated (68439-46-3) [10-15%]</td>
<td>TSCA</td>
</tr>
</tbody>
</table>

Regulatory CODE Descriptions

<table>
<thead>
<tr>
<th>CODE</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RQ</td>
<td>Reportable Quantity</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Superfund clean up substance</td>
</tr>
<tr>
<td>CSWHS</td>
<td>Clean Water Act Hazardous substances</td>
</tr>
<tr>
<td>MASS</td>
<td>MA Massachusetts Hazardous Substances List</td>
</tr>
<tr>
<td>PA</td>
<td>PA Right-To-Know List of Hazardous Substances</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>OSHAWAC</td>
<td>OSHA Workplace Air Contaminants</td>
</tr>
<tr>
<td>TXAIR</td>
<td>TX Air Contaminants with Health Effects Screening Level</td>
</tr>
</tbody>
</table>

16 OTHER INFORMATION
AATCC High Efficiency (HE) Standard Reference Detergent WITHOUT Brightener (WOB)

Health = 1, Fire = 0, Physical Hazard = 0

C - Safety Glasses, Gloves, Apron

This information is based on our current knowledge of the product and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.