SAFETY DATA SHEET

Section 1 - Identification

Product Identifier
AFIA Foaming E2 Sanitizing Hand Cleaner

Other means of identification
0448

Recommended use
Handwashing and sanitizing product.

Recommended restrictions
For commercial and industrial dispensing only. This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use.

Manufacturer / Importer / Supplier / Distributor Information

Company Name
National Chemical Laboratories of PA, Inc.

Address
401 N. 10th Street - Philadelphia, PA 19123

Telephone
1 (215) 922-1200

Supplier Email
info@nclonline.com

Contact
CHEM-TEL

Emergency Phone
1 (800) 255-3924

Section 2 - Hazard(s) Identification

Physical Hazards
Not Classified

Health Hazards
Serious eye damage/eye irritation

OSHA defined hazards
Not Classified.

Hazard Symbol
None.

Signal Word
Warning

Precautionary statement

Prevention
Observe good industrial hygiene practices. For external use only. Avoid contact with eyes.

Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage
Store away from incompatible materials.

Disposal
Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)
Not classified.

Section 3 - Composition/Information on ingredients

Mixture

Hazards Components

Component
1-dodecanaminium, n,n,n-trimethyl-, Chloride
1-hexadecanaminium, n,n,n-trimethyl-, Chloride
Ethanol, 2,2’-iminobis-, N-coco Alkyl Derivs., N-oxides
Alkylpolyglucoside C8-16
Alkyl Dimethyl Benzylammonium Chloride

CAS 
112-00-5
112-02-7
61791-47-7
141464-42-8
8001-54-5

% 
0.1 - 1
0.1 - 1
0.1 - 1
0.1 - 1
0.1 - 0.2

Composition Comments
Components not listed are either non-hazardous or are below reportable limits.

Section 4 - First-aid Measures

Inhalation
If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact
Wash skin with water. Get medical attention if irritation persists.

Eye contact
Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists.

Ingestion
If you feel unwell, seek medical advice (show the label where possible).

Most Important symptoms/effects, acute and delayed
Causes eye irritation.

Indication of immediate medical attention and special treatment
Treat symptomatically.
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General Information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - Fire-fighting measures

Suitable extinguishing media
Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures
Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up
SMALL SPILLAGE: Absorb spillage with suitable absorbent material.
LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling
Avoid contact with eyes. Use Personal Protective Equipment recommended in section 8 of the SDS.

Conditions for safe storage, including any incompatibilities
Store away from incompatible materials. Keep container closed.

Section 8 - Exposure control/personal protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines
Use personal protective equipment as required. Keep working clothes separately.

Appropriate engineering controls
Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment
Eye/face protection: If use of product risks exposure to contact, wear safety glasses with side shields.
Skin protection
Hand protection: Impervious gloves are recommended for prolonged use.
Other: If use of product risk exposure to contact, wear suitable protective clothing.
Respiratory protection: In case of inadequate ventilation, use respiratory protection.
Thermal hazards: Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance
Physical state: Liquid.
Form: Clear, thin liquid.
Color: Colorless.
Odor: Mild, characteristic.
Odor threshold: Not available.

pH: 5.8 ± 0.3
Melting point/freezing point: Not available.
Initial boiling point and boiling range: 212 °F (100 °C)
Flash point: > 212.0 °F (> 100.0 °C)
Evaporation rate: Not available.
Flammability (solid, gas): Not applicable.
Upper/lower flammability or explosive limits:
Flammability limit - lower: Not available.
Flammability limit - upper: Not available.
Explosive limit - lower: Not available.
### Section 10 - Stability and reactivity

**Reactivity**
The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability**
Stable at normal conditions.

**Possibility of hazardous reactions**
Hazardous polymerization does not occur.

**Conditions to Avoid**
Contact with incompatible materials.

**Incompatible materials**
Strong oxidizing agents.

**Hazardous Decomposition Products**
Carbon oxides, chlorine and nitrogen oxides.

### Section 11 - Toxicological information

**Inhalation**
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**Ingestion**
May be harmful if swallowed.

**Skin contact**
Prolonged or repeated contact may dry skin and cause irritation.

**Eye contact**
Causes eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**
Eye contact may cause irritation with redness, tearing and pain.

**Reproductive toxicity**
Not classified.

**Specific target organ toxicity - single exposure**
Not classified.

**Specific target organ toxicity - repeated exposure**
Not classified.

**Aspiration hazard**
Not available.

### Section 12 - Ecological Information

**Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills or discharges can have a harmful or damaging effect on the environment. The product contains substances which are toxic to aquatic organisms.

**Component(s)**
Alkyl Dimethyl Benzylammonium Chloride, 8001-54-5

**Aquatic**

<table>
<thead>
<tr>
<th>Level</th>
<th>Type</th>
<th>Code</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna)</td>
<td>0.0059 mg/L, 48 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
<td>Fathead Minnow (Pimephales promelas)</td>
<td>0.28 mg/L, 96 hours</td>
</tr>
</tbody>
</table>

**Persistance and degradability**
The product is expected to be biodegradable.

**Bioaccumulative potential**
No data available.

**Partition coefficient n-octanol / water log (Kow)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-hexadecanaminium, n,n,n-trimethyl- Chloride (CAS 112-02-7)</td>
<td>3.23</td>
</tr>
</tbody>
</table>
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1-hexadecanaminium, n,n,n-trimethyl-, Chloride (CAS 112-02-7)

Section 13 - Disposal considerations

Disposal instructions
Dispose in accordance with applicable federal, state, and local regulations.

Local disposal regulations
Dispose of in accordance with local regulations.

Hazardous waste code
Waste codes should be assigned by the user based on the application for which the product was used.

Waste from residues / unused products
Dispose in accordance with all applicable regulations.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code
This substance/mixture is not intended to be transported in bulk.

Section 15 - Regulatory Information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories
Immediate Hazard Yes
Delayed Hazard No
Fire Hazard No
Pressure Hazard No
Reactivity Hazard No

SARA 302 Extremely hazardous substance
No.

SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Drug Enforcement Administration (DEA), List 1 2
Not regulated.

Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.

DEA Exempt Chemical Mixtures Code Number
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Food and Drug Administration (FDA)
Regulated.

US state regulations
US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not listed.

US. Pennsylvania RTK - Hazardous Substances
Not listed.

US. Rhode Island RTK
Not regulated.

US - California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region
Australia
Canada
Canada
China
Europe
Europe
Japan
Korea
New Zealand
Philippines

Inventory Name
Australian Inventory of Chemical Substances (AICS)
Domestic Substances List (DSL)
Non-Domestic Substances List (NDSL)
Inventory of Existing Chemical Substances in China (IECSC)
European Inventory of Existing Commercial Chemical Substances (EINECS)
European List of Notified Chemical Substances (ELINCS)
Inventory of Existing and New Chemical Substances (ENCS)
Existing Chemicals List (ECL)
New Zealand Inventory
Philippine Inventory of Chemicals and Chemical Substances

On Inventory (yes/no)*
Yes
Yes
No
Yes
No
Yes
Yes
Yes
No
Section 16 - Other information, including date of preparation or last version

| Revision date | 1/17/2018 |
| Version #     | 02        |
| References    | HSDB® - Hazardous Substances Data Bank  
HPVIS - High Production Volume Information System |
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