FiteBac® Antimicrobial Cavity Cleanser

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label
: FiteBac® Antimicrobial Cavity Cleanser

Other means of identification
: Not available.

Recommended use of the chemical and restrictions on use
: Cavity Cleanser
  Use pattern: Professional use only
  Restriction on use: None known

Chemical family
: Mixture

Name, address, and telephone number of the manufacturer:
Fitebac Chemical
3698 Largent Way,
Suite 101
Marietta, GA, USA
30064
(770) 218 6221

Name, address, and telephone number of the supplier:

24 Hr. Emergency Tel #
: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical
: Clear colourless liquid. Alcohol odour.

Most important hazards: Flammable. May be ignited by open flames and sparks. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Occupational exposure to the substance or mixture may cause adverse effects.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:
Flammable liquids - Category 2
Serious eye damage/eye irritation - Category 2A
Specific target organ toxicity, single exposure - Category 3 (respiratory)

Label elements

Hazard pictogram(s)

Signal Word

DANGER!

Hazard statement(s)

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause respiratory irritation.
Precautionary statement(s)

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking
- Keep container tightly closed.
- Ground and bond container and receiving equipment.
- Use explosion-proof electrical and ventilating equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing mist or vapours.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
In case of fire: Use water fog, dry chemical, CO2 or ‘alcohol’ foam to extinguish.

Store in a well-ventilated place. Keep cool.
Keep container tightly closed.
Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards
Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS #</th>
<th>Concentration (% by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>80.0 - 100.0</td>
</tr>
<tr>
<td></td>
<td>Ethyl hydrate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quaternary ammonium silane-</td>
<td>Not available.</td>
<td>1566577-36-3</td>
<td>1.0 - 5.0</td>
</tr>
</tbody>
</table>

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

**Ingestion**: Do not induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

**Inhalation**: Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact**: Rinse skin with water/shower. Take off contaminated clothing and wash it before reuse.

**Eye contact**: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

- Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Direct skin contact may cause slight or mild, transient irritation. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.

Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES
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Extinguishing media

Suitable extinguishing media

- Use water fog or fine spray, foams, carbon dioxide or dry chemical.

Unsuitable extinguishing media

- Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- Highly flammable liquid and vapour. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

Flammability classification (OSHA 29 CFR 1910.106)

- Flammable liquids - Category 2

Hazardous combustion products

- Carbon monoxide, carbon dioxide, toxic vapours, gases or particulates.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

- Fight fires from a safe distance. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.

Environmental precautions

- Do not allow material to contaminate ground water system. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

- Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with inert, non-combustible absorbent material (e.g. sand, vermiculite), then place material into open, unsealed containers. For waste disposal, see Section 13 of the SDS.

Special spill response procedures

- If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- Use only in well-ventilated areas. Wear suitable protective equipment during handling. Do not ingest or swallow. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat, sparks and open flames. Use only non-sparking tools with this material. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not use pressure to empty drums. Do not cut, weld, drill or grind on or near this container. Follow labeled warnings even after container is emptied.

Conditions for safe storage

- Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Ethanol</td>
<td>N/Av</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Quaternary ammonium silane-</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

Exposure controls:

Ventilation and engineering measures: Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof electrical and ventilating equipment.

Respiratory protection: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection: Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection: Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Other protective equipment: An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Other equipment may be required depending on workplace standards.

General hygiene considerations: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colourless liquid.

Odour: Alcohol odour.

Odour threshold: Not available.

pH: Not available.

Melting Point/Freezing point: -114°C

Initial boiling point and boiling range: Not available.

Flash point: 14°C

Flashpoint (Method): closed cup

Evaporation rate (BuAe = 1): Not available.

Flammability (solid, gas): Not applicable.

Lower flammable limit (% by vol.): 3.3%

Upper flammable limit (% by vol.): 19%

Oxidizing properties: None.

Explosive properties: Not explosive

Vapour pressure: 59.5 hPa

Vapour density: Not available.
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Relative density / Specific gravity
- Not available.

Solubility in water
- Soluble

Other solubility(ies)
- Soluble in most organic solvents.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
- Not available.

Auto-ignition temperature
- Not available.

Decomposition temperature
- Not applicable.

Viscosity
- Not available.

Volatiles (% by weight)
- Not available.

Volatile organic Compounds (VOC's)
- Not available.

Absolute pressure of container
- Not applicable.

Flame projection length
- Not applicable.

Other physical/chemical comments
- None reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity
- Not normally reactive.

Chemical stability
- Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions
- Hazardous polymerization will not occur.

Conditions to avoid
- Keep away from excessive heat, open flames, sparks and other possible sources of
  ignition. Avoid contact with incompatible materials. Do not use in areas without
  adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical
  equipment.

Incompatible materials
- Strong oxidizing agents; Acids and bases Reducing agents Alkali metals. Halogens.

Hazardous decomposition products
- None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation
- YES

Routes of entry skin & eye
- YES

Routes of entry Ingestion
- YES

Routes of exposure skin absorption
- NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation
- May cause respiratory irritation. May cause sore throat, coughing, and tightness of
  chest.

Sign and symptoms Ingestion
- May cause irritation of mouth, throat, and stomach.

Sign and symptoms skin
- May cause mild skin irritation.

Sign and symptoms eyes
- Causes serious eye irritation. Symptoms may include severe pain, tearing, redness,
  swelling and blurred vision.

Potential Chronic Health Effects
- Prolonged or repeated skin contact may cause drying and irritation. Prolonged
  overexposure may cause liver and kidney effects.

Mutagenicity
- Not expected to be mutagenic in humans.
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Carcinogenicity: Not classifiable as a human carcinogen. Note that this product contains ethanol, a confirmed animal carcinogen (A3) by the ACGIH and human carcinogen (Group 1) by the IARC; however, this is only applicable when the chemical is present in alcoholic beverages.

Reproductive effects & Teratogenicity: Not expected to have other reproductive effects.

Sensitization to material: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: Specific target organ toxicity, single exposure - Category 3 (narcotic effects). May cause drowsiness or dizziness.

Medical conditions aggravated by overexposure: Not classified as specific target organ toxicity-repeated exposure.

Synergistic materials: None known or reported by the manufacturer.

Toxicological data: None known or reported by the manufacturer.

There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are: ATE oral = 15015.00 mg/kg

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC50(4hr)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inh. rat</td>
<td>(Oral, rat)</td>
</tr>
<tr>
<td>Ethanol</td>
<td>&gt; 32 380 ppm (61 mg/L (vapour))</td>
<td>7060 mg/kg</td>
</tr>
<tr>
<td>Quaternary ammonium silane-</td>
<td>N/Av</td>
<td>300 - 2000 mg/kg</td>
</tr>
</tbody>
</table>

Other important toxicological hazards: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be harmful to aquatic organisms. However, these ingredients are present at such low levels, they are not expected to affect environmental toxicity. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>Toxicity to Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LC50 / 96h</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&gt; 100 mg/L (Fathead minnow)</td>
</tr>
<tr>
<td>Quaternary ammonium silane-</td>
<td>1566577-36-3</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>Toxicity to Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC50 / 48h</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>5012 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Quaternary ammonium silane-</td>
<td>1566577-36-3</td>
<td>N/Av</td>
</tr>
</tbody>
</table>
## SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>Toxity to Algae</th>
<th></th>
<th>M Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC50 / 96h or 72h</td>
<td>NOEC / 96h or 72h</td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>1000 mg/L/96hr (Green algae)</td>
<td>N/A</td>
<td>None.</td>
</tr>
<tr>
<td>Quaternary ammonium silane-</td>
<td>1566577-36-3</td>
<td>N/A</td>
<td>N/A</td>
<td>None.</td>
</tr>
</tbody>
</table>

### Persistence and degradability
- Readily biodegradable.

### Bioaccumulation potential
- Does not significantly accumulate in organisms.

<table>
<thead>
<tr>
<th>Components</th>
<th>Partition coefficient n-octanol/water (log Kow)</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>- 0.31</td>
<td>N/A</td>
</tr>
<tr>
<td>Quaternary ammonium silane-</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Mobility in soil
- No data is available on the product itself.

### Other Adverse Environmental effects
- No data is available on the product itself.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Handling for Disposal
- See Section 7 (Handling and Storage) for further details. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

### Methods of Disposal
- Dispose in accordance with all applicable federal, state, provincial and local regulations.

### RCRA
- If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.
## SECTION 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
</table>
| 49CFR/DOT              | UN1170    | ETHANOL more than 24 per cent ethanol, by volume; | 3                          | II           | ![flame]
| 49CFR/DOT Additional information |           | May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.150. | | | |
| 49CFR/DOT              | UN1170    | ETHANOL more than 24 per cent ethanol, by volume | 3                          | II           | ![flame]
| 49CFR/DOT Additional information |           | May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.150. | | | |
| ICAO/IATA              | UN1170    | Ethyl alcohol            | 3                          | II           | ![flame]
| ICAO/IATA Additional information |           | Refer to ICAO/IATA Packing Instruction | | | |
| IMDG                   | UN1170    | ETHANOL (or ETHYL ALCOHOL) | 3                          | II           | ![flame]
| IMDG Additional information |           | Consult the IMDG regulations for exceptions. | | | |

### Special precautions for user
- Keep away from heat, sparks and open flame - No smoking.

### Environmental hazards
- This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Not available.

## SECTION 15 - REGULATORY INFORMATION

### US Federal Information:
Components listed below are present on the following U.S. Federal chemical lists:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>TSCA Inventory</th>
<th>CERCLA Reportable Quantity(RQ) (40 CFR 117.302):</th>
<th>SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:</th>
<th>SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical Toxic Chemical de minimus Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>Yes</td>
<td>None.</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Quaternary ammonium silane-</td>
<td>1566577-36-3</td>
<td>No</td>
<td>None.</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Eye irritation; Specific target organ toxicity, single exposure.

### US State Right to Know Laws:
The following chemicals are specifically listed by individual States:
## SAFETY DATA SHEET

**Ingredients** | **CAS #** | **California Proposition 65** | **State “Right to Know” Lists**
--- | --- | --- | ---
Ethanol | 64-17-5 | Yes | CA MA MN NJ PA RI
  - Cancer (in alcoholic beverages)
  - Developmental (in alcoholic beverages)
Quaternary ammonium silane- | 1566577-36-3 | No | N/Ap | CA MA MN NJ PA RI

### Canadian Information:

All ingredients are listed on the DSL, or are exempted materials.

### International Information:

Components listed below are present on the following International Inventory list:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>European EINECs</th>
<th>Australia AICS</th>
<th>Philippines PICCS</th>
<th>Japan ENCS</th>
<th>Korea KECI/KECL</th>
<th>China IECSC</th>
<th>NewZealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>Present</td>
<td>Present</td>
<td>(2)-202</td>
<td>KE-13217</td>
<td>Present</td>
<td>HSR001144</td>
</tr>
</tbody>
</table>

### SECTION 16. OTHER INFORMATION

**Legend**

- ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- IARC: International Agency for Research on Cancer
- IUCLID: International Uniform Chemical Information Database
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Ap: Not Applicable
- N/Av: Not Available
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average

**References**

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
2. ECHA - European Chemical Agency
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List

**Preparation Date (mm/dd/yyyy)**

: 08/10/2022
SAFETY DATA SHEET

Other special considerations for handling
: Provide adequate information, instruction and training for operators.

Prepared for:
Fitebac Chemical
3698 Largent Way, Suite 101
Marietta, GA 30064
Telephone: (770) 218 6221

Prepared by:
ICC The Compliance Center Inc.
Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)
http://www.thecompliancecenter.com

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END OF DOCUMENT