SAFETY DATA SHEET

1. Identification

Product Identifier: Tile & Grout Cleaner AB
Other means of identification:
- Product code: 933
Recommended use: Acid based stone & grout cleaner.
Recommended restrictions: Professional use only.

Manufacturer/Importer/Supplier/Distributor Information
- Company name: Fuller Commercial Products
- Address: One Fuller Way
Great Bend, KS 67530
- Telephone: Customer Service (800) 810-4829
- E-mail: Not available.
- Emergency phone number: CHEMTREC
  - Emergency: (620) 792-1711
  - 24 hour Emergency: (800) 424-9300

2. Hazard(s) Identification

Physical hazards: Corrosive to metals. Category 1
Health hazards:
- Serious eye damage. Category 1
- Skin corrosion. Category 1
- Acute toxicity. Category 5
Environmental hazards: Not classified
OSHA defined hazards: None

Label elements:
- Signal word: Danger
- Hazard statement:
  - May be corrosive to metals.
  - May be harmful if swallowed.
  - Causes severe skin burns and eye damage.

Precautionary statement

Prevention:
- Keep only in original container. Do not breathe dusts or mists. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response:
- Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable breathing. Immediately call a POISON CENTER/doctor/medical professional. Specific treatment (see supplemental information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Storage:
- Store in corrosive resistant container with a resistant inner lining. Store locked up.

Disposal:
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise: None.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>6-8</td>
</tr>
<tr>
<td>Nonylphenyl Ethoxylate</td>
<td>127087-87-0</td>
<td>1-2</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td>90-100</td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

**Inhalation**
Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**
Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

**Eye contact**
Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Immediately call a physician or transport to hospital.

**Ingestion**
Rinse mouth. Get medical attention immediately. Do not induce vomiting.

**Most important symptoms/effects, acute and delayed**
Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage. Hydrochloric acid is extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin.

**Indication of immediate medical attention and special treatment needed**
Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Use with extreme caution.

5. Fire-fighting measures

**Suitable extinguishing media**
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂)

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**
During fire, gases hazardous to health may be formed (hydrogen chloride gas).

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

**Fire-fighting equipment/instructions**
Move containers from fire area if you can do so without risk.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
No unusual fire or explosion hazards noted.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**
This product is miscible in water.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where
this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid discharge into areas not consistent with package labeling.

7. Handling and storage

Precautions for safe handling
Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits
US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen chloride</td>
<td>PEL</td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

US ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen chloride</td>
<td>STEL</td>
<td>2 ppm</td>
</tr>
</tbody>
</table>

Biological limit values
No information.

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. It is recommended that users of this product perform a risk assessment to determine the appropriate personal protective equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection
Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection
Wear appropriate chemical resistant gloves

Other
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
When using do not smoke or use chewing tobacco. 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

SDS US
Material Name: Tile & Grout Cleaner AB
Physical State Clear liquid.
Color Colorless.
Odor Mint.
Odor threshold Not available.
\( \text{pH} \) 0-1
Melting/freezing point \( 14°F (-10°C) \) estimated.
Initial boiling point and boiling range >212°F (>100°C)
Flash point Not applicable.
Evaporation rate Not available.
Flammability Not available.
Flammability Limits
  Upper Not available.
  Lower Not available.
Vapor pressure <0.01 mmHg at 77°F (25°C).
Vapor density Not available.
Specific gravity (water=1) 1.03
Solubility in water Soluble.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.

10. Stability and reactivity
Reactivity This product is stable and non-reactive under normal conditions of use.
Chemical stability Material is stable under normal conditions. Store in a cool dark place.
Possibility of hazardous reactions Hazardous polymerization does not occur
Conditions to avoid Avoid storage in elevated temperatures.
Incompatible materials Bases, amines, metals.
Hazardous decomposition products No hazardous decomposition products occur. In case of fire see section 5.

11. Toxicological information
Information on likely routes of exposure
  Ingestion Do not ingest. May be harmful if swallowed.
  Inhalation Do not inhale. May cause damage to the upper respiratory tract.
  Skin contact Can cause severe skin burns.
  Eye contact Can cause serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics Burning sensation, coughing, wheezing, shortness of breath. Hydrochloric acid is extremely destructive to mucous membranes and upper respiratory tract, eyes, and skin.
Acute toxicity May be harmful if swallowed.

<table>
<thead>
<tr>
<th>Product</th>
<th>Route and Species</th>
<th>( \text{LD}_{50} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tile &amp; Grout Cleaner AB (CAS mixture)</td>
<td>Oral, rat</td>
<td>3,412 mg/kg estimated</td>
</tr>
</tbody>
</table>

SDS US
Material Name: Tile & Grout Cleaner AB
Dermal, rabbit

20,276 mg/kg estimated

*Estimates for product may be based on additional component data not shown

**Skin corrosion/irritation** Can cause severe skin burns.

**Serious eye damage/irritation** Can cause serious eye damage.

**Respiratory sensitization** Not considered a respiratory sensitizer.

**Skin sensitization** Not considered a skin sensitizer.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not considered a carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed.

**Reproductive toxicity** No data available.

**Specific target organ toxicity** May cause damage to the upper respiratory tract with prolonged inhalation.

- **Single exposure**

- **Repeated exposure** No data available.

**Aspiration hazard** No data available.

12. Ecological information

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tile &amp; Grout Cleaner AB (CAS mixture)</td>
<td>Fathead Minnow</td>
<td>211 mg/L estimated</td>
</tr>
</tbody>
</table>

*Estimates for product may be based on additional component data not shown

**Persistence and degradability** No data available.

**Bioaccumulative potential** Not data available

**Partition coefficient n-octanol/water (log Kow)** Not available.

**Mobility in soil** No data available.

**Other adverse effects** The pH of this product may cause it to harm plants and wildlife.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues/unused product** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.
14. Transport information

DOT

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1760</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Corrosive liquid, n.o.s. (Contains: Hydrogen chloride)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>8</td>
</tr>
<tr>
<td>Class</td>
<td>8</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Packaging group</td>
<td>III</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS, and emergency procedures before handling.</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>Not intended to be transported in bulk.</td>
</tr>
</tbody>
</table>

15. Regulatory information

US federal regulations

- SARA 302 Extremely hazardous substance
  - Not listed.
- SARA 304 Emergency release notification
  - Not listed.
- SARA 311/312 Hazard Categories
  - Immediate Hazard - Yes
  - Delayed Hazard – No
  - Fire Hazard – No
  - Pressure Hazard – No
  - Reactivity Hazard – No
- SARA 313 (TRI reporting)
  - Not listed.

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>9/30/2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>5/11/2015</td>
</tr>
<tr>
<td>Version #</td>
<td>3</td>
</tr>
<tr>
<td>------------</td>
<td>---</td>
</tr>
</tbody>
</table>
| HMIS® ratings | Health: 2  
               Flammability: 0  
               Physical hazard: 0 |
| NFPA ratings | Health: 2  
                Flammability: 0  
                Instability: 0 |
| Disclaimer  | The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text. |
| Revision information | Transportation information, Material name, Transportation information, Formatting. |