1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name**: SafeCLEAN Activated Scale Remover
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**: Descaler for coffee and other foodservice equipment
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - Urnex Brands, Inc.
  - 700 Executive Blvd.
  - Elmsford, NY 10523 USA
  - Phone: +1-914-963-2042
  - Fax: +1-914-963-2145
  - Email: info@urnex.com
- **Further information obtainable from:**
  - Urnex Brands, Inc.
  - 700 Executive Blvd.
  - Elmsford, NY 10523 USA
  - Tel.: +1-914-963-2042
  - Fax: +1-914-963-2145
  - Email: info@urnex.com
- **Emergency telephone number:**
  - Tel.: 800-424-9300 (USA)
  - Tel.: 001-703-527-3887 (INTERNATIONAL COLLECT ACCEPTED)

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
  - The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

- GHS05

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - Aluminum Chloride Hexahydrate

- **Hazard statements**
  - H314 Causes severe skin burns and eye damage.

- **Precautionary statements**
  - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
  - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER or doctor/physician.
  - P405 Store locked up.

(Contd. on page 2)
Trade name: SafeCLEAN Activated Scale Remover

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Dangerous components:

<table>
<thead>
<tr>
<th>Chemical Code</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7784-13-6</td>
<td>Aluminum Chloride Hexahydrate</td>
<td>&lt; 50%</td>
</tr>
<tr>
<td></td>
<td>Skin Corr. 1B, H314; Acute Tox. 4, H302</td>
<td></td>
</tr>
<tr>
<td>5949-29-1</td>
<td>2-hyroxyl-1,2,3-propane tricarboxylic acid, monohydrate</td>
<td>&lt; 50%</td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2, H319</td>
<td></td>
</tr>
</tbody>
</table>

4 First aid measures

- Description of first aid measures

- General information:
  - Take affected persons out of danger area and lay down.
  - Immediately remove any clothing soiled by the product.

- After inhalation:
  - Supply fresh air; consult doctor in case of complaints.

- After skin contact:
  - Immediately wash with water and soap and rinse thoroughly.
  - If skin irritation continues, consult a doctor.

- After eye contact:
  - Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing:
  - Rinse out mouth and then drink plenty of water.
  - Seek immediate medical advice.

- Information for doctor:
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Firefighting measures

- Extinguishing media

- Suitable extinguishing agents:
  - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents: Water with full jet

- Special hazards arising from the substance or mixture
  - Carbon monoxide (CO)
  - Under certain fire conditions, traces of other toxic gases cannot be excluded.

- Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.

- Additional information
  - Cool endangered receptacles with water spray.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Ensure adequate ventilation
  Wear protective clothing.
  Avoid formation of dust.
- Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:
  Pick up mechanically.
  Ensure adequate ventilation.
  Dispose of the material collected according to regulations.
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Any unavoidable deposit of dust must be regularly removed.
  - Information about fire and explosion protection: Keep respiratory protective device available.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  - Information about storage in one common storage facility: Store away from oxidizing agents.
  - Further information about storage conditions:
    Keep container tightly sealed.
    Store under lock and key and out of the reach of children.
    Protect from humidity and water.
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    Do not inhale dust / smoke / mist.
    Immediately remove all soiled and contaminated clothing.
    Avoid contact with the eyes and skin.
    The usual precautionary measures are to be adhered to when handling chemicals.
  - Respiratory protection: Not necessary if room is well-ventilated.
  - Protection of hands:
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

(Contd. on page 4)
### 9 Physical and chemical properties

- **Material of gloves**
  - Natural rubber, NR
  - Nitrile rubber, NBR
- **Penetration time of glove material**
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection**: Safety glasses
- **Body protection**: Protective work clothing

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td><em>Form</em></td>
<td>Solid</td>
</tr>
<tr>
<td><em>Colour</em></td>
<td>According to product specification</td>
</tr>
<tr>
<td><em>Odour</em></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>pH-value (10 g/l) at 20°C</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td><em>Melting point/Melting range</em></td>
<td>Not determined.</td>
</tr>
<tr>
<td><em>Boiling point/Boiling range</em></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Self-igniting</strong></td>
<td>Product is not self-igniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with water</strong></td>
<td>Soluble.</td>
</tr>
<tr>
<td><strong>Solvent content</strong></td>
<td></td>
</tr>
<tr>
<td><em>Organic solvents</em></td>
<td>0.0 %</td>
</tr>
<tr>
<td><strong>Solids content</strong></td>
<td>100.0 %</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided**
  - No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
  - Reacts with reducing agents.
  - Reacts with strong acids and oxidizing agents.
- **Conditions to avoid**
  - No further relevant information available.
- **Incompatible materials**
  - Strong oxidizing agents
- **Hazardous decomposition products**
  - No dangerous decomposition products known.

(Contd. on page 5)
11 Toxicological information

· Information on toxicological effects
· Acute toxicity:
  · LD/LC50 values relevant for classification:
    7784-13-6 Aluminum Chloride Hexahydrate
    Oral | LD50 | 1990 mg/kg (Mouse)  
    Oral | LD50 | 3311 mg/kg (Rat)  
    5949-29-1 2-hydroxy-1,2,3-propane tricarboxylic acid, monohydrate
    Oral | LD50 | 5040 mg/kg (Mouse)  
    Oral | LD50 | 11700 mg/kg (Rat)  
· Primary irritant effect:
  · on the skin: Irritant to skin and mucous membranes.
  · on the eye: Irritating effect.
· Sensitization: No sensitizing effects known.

12 Ecological information

· Toxicity
· Aquatic toxicity:
  5949-29-1 2-hydroxy-1,2,3-propane tricarboxylic acid, monohydrate
  LC50 (96h) | 440-706 mg/l (Fish)
· Persistence and degradability: No further relevant information available.
· Behaviour in environmental systems:
  · Bioaccumulative potential: No further relevant information available.
  · Mobility in soil: No further relevant information available.
· Additional ecological information:
· General notes:
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· Results of PBT and vPvB assessment
  · PBT: Not determined
  · vPvB: Not determined
· Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation: Smaller quantities can be disposed of with household waste.
· Uncleaned packaging
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
· ADR, IMDG, IATA: UN3261

(Contd. on page 6)
Trade name: SafeCLEAN Activated Scale Remover

(Contd. of page 5)

- UN proper shipping name
  - ADR 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Aluminum Chloride Hexahydrate)
  - IMDG, IATA CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Aluminum Chloride Hexahydrate)

- Transport hazard class(es)
  - ADR, IMDG, IATA

  8 Corrosive substances.

- Class 8

- Packing group
  - ADR, IMDG, IATA II

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - ADR, IMDG, IATA

  Warning: Corrosive substances.

- Danger code (Kemler): 80

- EMS Number: F-A,S-B

- Segregation groups
  - Acids

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

- Transport/Additional information:
  - ADR Not dangerous according to the above specifications.

- Tunnel restriction code E

- UN "Model Regulation": UN3261, CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Aluminum Chloride Hexahydrate), 8, II

15 Regulatory information

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H319 Causes serious eye irritation.

- Department issuing SDS:
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700 Executive Blvd.
Elmsford, NY 10523
Tel.: +1-914-963-2042
Fax: +1-914-963-2145
Email: info@urnex.com

· **Contact:** info@urnex.com

· **Abbreviations and acronyms:**
  - **ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - **IMDG:** International Maritime Code for Dangerous Goods
  - **IATA:** International Air Transport Association
  - **GHS:** Globally Harmonized System of Classification and Labelling of Chemicals
  - **LC50:** Lethal concentration, 50 percent
  - **LD50:** Lethal dose, 50 percent