1 Identification of substance:

- Product details:
  - Trade name: Mega Sol
  - Application of the substance / the preparation: Laundry
- Manufacturer/Supplier:
  SEITZ GmbH
  Gutenbergstrasse 3
  65830 Kriftel/ Germany
  seitz@seitz24.com
  www.seitz24.com
- Information department:
  CHEM-TEL Inc.
  1305 North Florida Ave
  Tampa Florida 33602
- Emergency information: 1-800-255-3924

2 Hazards identification

- Hazard description:
  Corrosive powder
  Corrosive
- WHMIS classification
  D2B - Toxic material causing other toxic effects
  E - Corrosive material

- Information pertaining to particular dangers for man and environment
  R 34 Causes burns.
  R 37 Irritating to respiratory system.

- Classification system
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- NFPA ratings (scale 0-4)
  Health = 3
  Fire = 0
  Reactivity = 0

- HMIS ratings (scale 0-4)
  HEALTH 3 Health = 3
  FIRE 0 Fire = 0
  REACTIVITY 0 Reactivity = 0

3 Composition/Data on components:

- Chemical characterization
- Description: Mixture of the substances listed below with non-hazardous ingredients.

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>497-19-8</td>
<td>sodium carbonate</td>
<td>20 - 50%</td>
</tr>
<tr>
<td>10213-79-3</td>
<td>sodium metasilicate pentahydrate</td>
<td>20 - 50%</td>
</tr>
<tr>
<td>69011-36-5</td>
<td>isotridecanol, oxethylated</td>
<td>&lt; 10%</td>
</tr>
</tbody>
</table>

(Contd. on page 2)
4 First aid measures

- General information
  Remove casualties from exposure.
  Keep unprotected persons away.
  Immediately remove any clothing soiled by the product.
- After inhalation
  Supply fresh air; consult doctor in case of complaints.
- After skin contact
  Immediately rinse with water.
  Seek medical treatment.
- 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.
  Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

- Suitable extinguishing agents
  CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards caused by the material, its products of combustion or resulting gases:
  In case of fire, the following can be released:
  Carbon monoxide and carbon dioxide (CO, CO₂)
  Sulphur oxides (SOX)
  In certain fire conditions, traces of other toxic gases cannot be excluded.
- Protective equipment:
  Do not inhale explosion gases or combustion gases.
  Wear self-contained respiratory protective device.
- Additional information
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- Person-related safety precautions:
  Wear protective equipment. Keep unprotected persons away.
  Avoid contact with eyes and skin.
  Avoid formation of dust.
- Measures for environmental protection:
  Do not allow product to reach sewage system or any water course.
- Measures for cleaning/collection:
  Pick up mechanically.
  Dispose of the collected material according to regulations.

7 Handling and storage

- Handling
- Information for safe handling:
  Keep away from heat and direct sunlight.
  Prevent formation of dust.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Avoid contact with eyes and skin.

- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
  - **Requirements to be met by storerooms and receptacles:**
    Store only in the original receptacle.
    Unsuitable material for receptacle: aluminium.
  - **Information about storage in one common storage facility:** Store away from foodstuffs.
  - **Further information about storage conditions:**
    Store in cool, dry conditions in well sealed receptacles.
    Protect from humidity and water.
    Time of storage: max. 24 month

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components 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.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
  - **General protective and hygienic measures**
    The usual precautionary measures for handling chemicals should be followed.
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
    Do not eat, drink, smoke or sniff while working.
    Avoid contact with the eyes and skin.
    Do not inhale dust / smoke / mist.
    Vacuum clean contaminated clothing. Do not blow or brush off contamination.
  - **Breathing equipment:**
    Not necessary if room is well-ventilated.
    By formation of dust: dust mask
  - **Protection of hands:**
    Protective gloves.
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - **Material of gloves**
    Nitrile rubber, NBR
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **Penetration time of glove material**
    The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:** Tightly sealed goggles.
  - **Body protection:** Protective work clothing.
Trade name: Mega Sol

9 Physical and chemical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td>Form:</td>
<td>Powder</td>
</tr>
<tr>
<td>Color:</td>
<td>White</td>
</tr>
<tr>
<td>Odor:</td>
<td>Product specific</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>undetermined</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>Flash point:</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Auto igniting:</strong></td>
<td>Product is not selfigniting.</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>Bulk density at 20°C (68°F):</strong></td>
<td>~ 860 kg/m³</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with</strong></td>
<td></td>
</tr>
<tr>
<td>Water:</td>
<td>Easily soluble</td>
</tr>
<tr>
<td><strong>pH-value (10 g/l) at 20°C (68°F):</strong></td>
<td>~ 11.3</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
  - No decomposition if used according to specifications.
  - Protect from humidity.
- **Dangerous reactions**
  - Reacts with acids
  - Corrodes aluminium
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**
    - 10213-79-3 sodium metasilicate pentahydrate
      - Oral LD50 800 mg/kg (rat)
    - 68411-30-3 alkyl benzenesulfonic acid sodium salts
      - Oral LD50 2550 mg/kg (rat)
    - 69011-36-5 isotridecanol, oxethylated
      - Oral LD50 > 2000 mg/kg (rat)
    - 497-19-8 sodium carbonate
      - Oral LD50 > 2000 mg/kg (rat)
- **Primary irritant effect:**
  - on the skin: Caustic effect on skin and mucous membranes.
  - on the eye: Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  - The product shows the following dangers according to internally approved calculation methods for preparations:
Trade name: Mega Sol

Corrosive
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- General notes:
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  Our products are ultimately biodegradable according to criteria as laid down in Regulation (EC) No. 648/2004 on detergents. The test methods of ultimate biodegradability (mineralisation) are: Norm EN ISO 14593, OECD 301 B, OECD 301 C, OECD D and OECD 301 E

13 Waste Disposal Method

- Product and uncleaned packagings:
- Recommendation:
  Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

14 Transport information

- DOT regulations:
  - Hazard class: 8
  - Identification number: UN3262
  - Packing group: III
  - Proper shipping name (technical name): CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)
  - Label 8

- Land transport ADR/RID (cross-border)
  - ADR/RID class: 8 (C6) Corrosive substances
  - Danger code (Kemler): 80
  - UN-Number: 3262
  - Packaging group: III
  - Description of goods: 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)
Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/16/2008
Reviewed on 07/16/2008

Trade name: Mega Sol

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**Maritime transport IMDG:**

- **IMDG Class:** 8
- **UN Number:** 3262
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Proper shipping name:** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)

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**Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 8
- **UN/ID Number:** 3262
- **Label:** 8
- **Packaging group:** III
- **Proper shipping name:** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)

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**15 Regulatory information (Not meant to be all-inclusive/selected regulations represented)**

- **Product related hazard informations:**
  The product has been marked in accordance with national laws.
  Observe the general safety regulations when handling chemicals

- **Hazard symbols:**
  Corrosive

- **Hazard-determining components of labelling:**
  sodium metasilicate pentahydrate

- **Risk phrases:**
  34 Causes burns.
  37 Irritating to respiratory system.

- **Safety phrases:**
  2 Keep out of the reach of children.
  20 When using do not eat or drink.
  22 Do not breathe dust.
  24/25 Avoid contact with skin and eyes.
  26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
  36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
  45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
  46 If swallowed, seek medical advice immediately and show this container or label.

(Contd. on page 7)
Trade name: Mega Sol

- National regulations
- Other regulations, limitations and prohibitive regulations
  The product has been designed for professional use only.
- Please note:
  The information herein is presented in good faith and believed to be accurate as of the effective
date shown above. However, no warranty, express or implied is given. Regulatory requirements
are subject to change and may differ from one location to another. It is the buyers responsibility to
ensure that their activities comply with Federal, State or provincial and local laws. The following
specific information is made for the purpose of complying with numerous laws and regulations.
- U.S. Regulations
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - MAK (German Maximum Workplace Concentration)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.
  - SARA Section 355 (extremely hazardous substances)
    None of the ingredients is listed.
  - SARA Section 313 (specific toxic chemical listings)
    None of the ingredients is listed.
  - Toxic Substances Control Act (TSCA):
    All ingredients are listed.
- California proposition 65:
  - Prop 65 - Chemicals known to cause cancer
    None of the ingredients is listed.
  - Prop 65 - Chemicals known to cause developmental toxicity
    None of the ingredients is listed.
  - Prop 65 - Chemicals known to cause reproductive toxicity for females
    None of the ingredients is listed.
  - Prop 65 - Chemicals known to cause reproductive toxicity for males
    None of the ingredients is listed.
- Canadian regulations
  - WHMIS information:
    The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this
    product is:
    D2B - Toxic material causing other toxic effects
    E - Corrosive Material
  - CPR statement:
    This product has been classified in accordance with the hazard criteria of the Canadian Controlled
    Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

(Contd. on page 8)
Trade name: Mega Sol

- Canadian Ingredient Disclosure List
  - Limit 0.1%
    None of the ingredients is listed.
  - Limit 1%
    - 497-19-8 sodium carbonate
    - 68411-30-3 alkyl benzenesulfonic acid sodium salts
- Canadian Domestic Substances List (DSL)
  All ingredients are listed.

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.

- Contact: Dr. Ralf Döring
- * Data compared to the previous version altered.