1 Identification

- Product identifier
  - Trade name: Mega Forte
  - Application of the substance / the mixture
    Laundry
    Detergent

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    SEITZ GmbH
    Gutenbergstrasse 1 - 3
    65830 Kriftel / Germany
    Tel. + 49(0) 6192-9948-0
    Fax + 49(0) 6192-9948-99
    order@seitz24.com
    www.seitz24.com

- Information department:
  CHEM-TEL Inc.
  1305 North Florida Ave
  Tampa Florida 33602
- Emergency telephone number: 1-800-255-3924

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS05 Corrosion
    Met. Corr. 1  H290  May be corrosive to metals.
    Skin Corr. 1B  H314  Causes severe skin burns and eye damage.
    Eye Dam. 1  H318  Causes serious eye damage.

- GHS07
  STOT SE 3  H335  May cause respiratory irritation.

- Label elements
  - GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms
  - GHS05
  - GHS07
  - Signal word Danger

- Hazard-determining components of labeling:
  disodium metasilicate pentahydrate
  isotredecanol, ethoxylated
  benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

(Contd. on page 2)
Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements
P260 Do not breathe dust.
P280 Wear protective gloves / eye protection.
P303+P361+P351 If on skin (or hair): 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/doctor.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 497-19-8</td>
<td>sodium carbonate</td>
<td>25 - 50%</td>
</tr>
<tr>
<td>CAS: 10213-79-3</td>
<td>disodium metasilicate pentahydrate</td>
<td>25 - 50%</td>
</tr>
<tr>
<td>CAS: 69011-36-5</td>
<td>isotridecanol, ethoxylated</td>
<td>&lt; 5%</td>
</tr>
<tr>
<td>CAS: 68411-30-3</td>
<td>benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</td>
<td>&lt; 2.5%</td>
</tr>
<tr>
<td>CAS: 112926-00-8</td>
<td>silicon dioxide</td>
<td>&lt; 0.25%</td>
</tr>
</tbody>
</table>

Additional information For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

Description of 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.

Information for doctor

Most important symptoms and effects, both acute and delayed
Causes severe skin burns and eye damage.
May cause respiratory irritation.
5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents No further relevant information available.
- Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- 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

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
  Avoid contact with eyes and skin.
- Environmental precautions: Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up:
  Pick up mechanically.
  Send for recovery or disposal in suitable receptacles.
- 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
  Keep away from heat and direct sunlight.
  Prevent formation of dust.
  Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- 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.
Trade name: Mega Forte

- Further information about storage conditions:
  - Protect from heat and direct sunlight.
  - Store in cool, dry conditions in well sealed receptacles.
  - Protect from humidity and water.
  - Time of storage: max. 24 month

- Specific end use(s) Laundry

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:
  - The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
  - At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>CAS: 112926-00-8 silicon dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
<tr>
<td>See Pocket Guide App. C</td>
</tr>
<tr>
<td>TLV (USA)</td>
</tr>
<tr>
<td>EL (Canada)</td>
</tr>
<tr>
<td>Precipitated and gel;*total;**respirable</td>
</tr>
<tr>
<td>EV (Canada)</td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment
- General protective and hygienic measures
  - The usual precautionary measures for handling chemicals should be followed.
  - Do not eat, drink, smoke or sniff while working.
  - Vacuum clean contaminated clothing. Do not blow or brush off contamination.
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
  - Do not inhale dust / smoke / mist.
- Breathing equipment: 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.
# Safety Data Sheet
## acc. to OSHA HCS

**Trade name:** Mega Forte

- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</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>- Odor threshold</td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>pH-value (10 g/l) at 20 °C (68 °F):</strong></td>
<td>~ 11.7</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>Flammability (solid, gaseous)</strong></td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>No further relevant information available</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>Explosion limits</strong></td>
<td></td>
</tr>
<tr>
<td>- Lower</td>
<td>No further relevant information available</td>
</tr>
<tr>
<td>- Upper</td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>No further relevant information available</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>~ 925 kg/m³</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water:</strong></td>
<td>Easily soluble</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>No further relevant information available</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td></td>
</tr>
<tr>
<td>- dynamic</td>
<td>No further relevant information available</td>
</tr>
<tr>
<td>- kinematic</td>
<td>No further relevant information available</td>
</tr>
<tr>
<td>- Other information</td>
<td>No further relevant information available</td>
</tr>
</tbody>
</table>

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
Trade name: Mega Forte

- **Chemical stability**
  Stable under normal ambient conditions.
  No decomposition if used and stored according to specifications.

- **Possibility of hazardous reactions**
  Reacts with acids
  Corrodes aluminium

- **Conditions to avoid**
  No further relevant information available.

- **Incompatible materials:**
  Acids
  Certain metals

- **Hazardous decomposition products:** No dangerous decomposition products known

### 11 Toxicological information

- **Information on toxicological effects**
  **Acute toxicity:**

  | CAS: 497-19-8 sodium carbonate | Oral LD50 2800 mg/kg (rat) |
  | CAS: 10213-79-3 disodium metasilicate pentahydrate |
  | Oral LD50 1152-1349 mg/kg (rat) |
  | Dermal LD50 > 5000 mg/kg (rat) |
  | Inhalative LC50 > 2060 mg/m³ (rat) |
  | CAS: 69011-36-5 isotridecanol, ethoxylated |
  | Oral LD50 > 300 - 2000 mg/kg (rat) |
  | Dermal LD50 > 2000 mg/kg (rabbit) |
  | CAS: 68411-30-3 benzenesulfonic acid, C10-13-alkyl derivs., sodium salts |
  | Oral LD50 1080 mg/kg (rat) |
  | Dermal LD50 > 2000 mg/kg (rat) |
  | CAS: 112926-00-8 silicon dioxide |
  | Oral LD50 > 5000 mg/kg (rat) |
  | Dermal LD50 > 5000 mg/kg (rabbit) |

- **on the skin:** Causes severe skin burns and eye damage.
- **on the eye:** Causes serious eye damage.
  **Sensitization:** Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

- **Carcinogenic categories**

  | IARC (International Agency for Research on Cancer) |
  | CAS: 112926-00-8 silicon dioxide 3 |
  | NTP (National Toxicology Program) |
  | None of the ingredients is listed. |
  | OSHA-Ca (Occupational Safety & Health Administration) |
  | None of the ingredients is listed. |
## 12 Ecological information

### Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Aquatic toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 497-19-8 sodium carbonate</td>
<td><strong>LC50</strong> 300 mg/l (Fish) (96 h; Lepomis macrochirus) 200 – 227 mg/l (Aquatic invertebrates) (48 h; Ceriodaphnia sp.)</td>
</tr>
<tr>
<td>CAS: 10213-79-3 disodium metasilicate pentahydrate</td>
<td><strong>EC50</strong> 1700 mg/l (Aquatic invertebrates) (48 h; Daphnia magna) <strong>LC50</strong> 210 mg/l (Fish) (96 h; Brachydanio rerio)</td>
</tr>
<tr>
<td>CAS: 69011-36-5 isotridecanol, ethoxylated</td>
<td><strong>EC50</strong> &gt; 1 - 10 mg/l (Aquatic plants, algae) (72 h; Desmodesmus subspicatus; OECD 201) <strong>LC50</strong> &gt; 1 - 10 mg/l (Fish) (96 h; Cyprinus carpio; OECD 203) <strong>NOEC</strong> &gt; 1 mg/l (Aquatic invertebrates) (Daphnia magna)</td>
</tr>
<tr>
<td>CAS: 68411-30-3 benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</td>
<td><strong>EC50</strong> 10 - 100 mg/l (Aquatic plants, algae) (96 h; Pseudokircheneriella subcaptitata) <strong>LC50</strong> 1 - 10 mg/l (Fish) (96 h; Lepomis macrochirus) <strong>NOEC</strong> 3.1 mg/l (Aquatic plants, algae) (15 d; Chlorella kessleri)</td>
</tr>
</tbody>
</table>

- **Persistence and degradability** No further relevant information available.
- **Behavior 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.
  - The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

### 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

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>UN3262</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT, ADR, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>DOT proper shipping name</td>
<td>Corrosive solid, basic, inorganic, n.o.s. (Disodium trioxosilicate)</td>
</tr>
<tr>
<td>ADR</td>
<td>3262 Corrosive solid, basic, inorganic, n.o.s. (Disodium trioxosilicate)</td>
</tr>
<tr>
<td>IMDG, IATA</td>
<td>CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>DOT</td>
<td>Class 8 Corrosive substances</td>
</tr>
<tr>
<td>Label</td>
<td>8</td>
</tr>
<tr>
<td>ADR</td>
<td>Class 8 (C6) Corrosive substances</td>
</tr>
<tr>
<td>Label</td>
<td>8</td>
</tr>
<tr>
<td>IMDG, IATA</td>
<td>Class 8 Corrosive substances</td>
</tr>
<tr>
<td>Label</td>
<td>8</td>
</tr>
<tr>
<td>Packing group</td>
<td>DOT, ADR, IMDG, IATA III</td>
</tr>
<tr>
<td>Environmental hazards:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Warning: Corrosive substances</td>
</tr>
<tr>
<td>Danger code (Kemler):</td>
<td>80</td>
</tr>
<tr>
<td>EMS Number:</td>
<td>F-A,S-B</td>
</tr>
<tr>
<td>Segregation groups:</td>
<td>Alkalis</td>
</tr>
</tbody>
</table>

(Contd. on page 9)
Trade name: Mega Forte

- **Stowage Category**: A
- **Segregation Code**: SG35 Stow "separated from" acids.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**: Not applicable.
- **Transport/Additional information:**
  - **DOT**: 
    - **Quantity limitations**: On passenger aircraft/rail: 25 kg; On cargo aircraft only: 100 kg
  - **ADR**: 
    - **Excepted quantities (EQ)**: Code: E1
      - Maximum net quantity per inner packaging: 30 g
      - Maximum net quantity per outer packaging: 1000 g
  - **IMDG**: 
    - **Limited quantities (LQ)**: 5 kg
    - **Excepted quantities (EQ)**: Code: E1
      - Maximum net quantity per inner packaging: 30 g
      - Maximum net quantity per outer packaging: 1000 g
- **UN "Model Regulation"**: UN 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE), 8, III

**15 Regulatory information**

- **Canadian substance lists**
  - **Canadian domestic substance list (DSL)**: All ingredients are listed.
  - **Canadian ingredient disclosure list (limit 0.1%)**: None of the ingredients is listed.
  - **Canadian ingredient disclosure list (limit 1%)**: 
    - CAS: 497-19-8 sodium carbonate
    - CAS: 68411-30-3 benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
- **Sara**
  - **Section 355 (extremely hazardous substances)**: None of the ingredients is listed.
  - **Section 313 (specific toxic chemical listings)**: 
    - CAS: 7758-29-4 pentasodium triphosphate
- **TSCA (Toxic Substances Control Act)**: All ingredients are listed.
- **Proposition 65**
  - **Chemicals known to cause cancer**: None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for females**: None of the ingredients is listed.
Trade name: Mega Forte

- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:
  None of the ingredients is listed.

- New Jersey Right-to-Know List:
  CAS: 112926-00-8 silicon dioxide

- New Jersey Special Hazardous Substance List:
  None of the ingredients is listed.

- Pennsylvania Right-to-Know List:
  CAS: 7758-29-4 pentasodium triphosphate

- Pennsylvania Special Hazardous Substance List:
  CAS: 7758-29-4 pentasodium triphosphate

- EPA (Environmental Protection Agency)
  None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)
  None of the ingredients is listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  None of the ingredients is listed.

- National regulations
- Other regulations, limitations and prohibitive regulations
- 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 its 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.
- Other information: The product has been designed for professional use only.

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.

- Date of preparation / last revision 03/31/2017 / 2
- 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
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value
  PEL: Permissible Exposure Limit
  REL: Recommended Exposure Limit
Trade name: Mega Forte

- Met. Corr. 1: Corrosive to metals – Category 1
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.