Safety Data Sheet
acc. to OSHA HCS

Printing date 04/05/2017
Reviewed on 04/05/2017

1 Identification

- Product identifier
  - Trade name: Viva Plex
  - 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.

  GHS07

  Skin Irrit. 2  H315  Causes skin irritation.
  Eye Irrit. 2A H319  Causes serious eye irritation.

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

  GHS05

- Signal word Warning

  - Hazard statements
    H290 May be corrosive to metals.
    H315 Causes skin irritation.
    H319 Causes serious eye irritation.

  - Precautionary statements
    P280  Wear protective gloves / eye protection.

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P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

· Other hazards
· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures
  · CAS-No. Components:
    CAS: 1310-58-3 potassium hydroxide < 2%

· 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 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.
   If skin irritation continues, consult a doctor.
  · After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, 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
    Eye irritation
    Skin irritation
  · Indication of any immediate medical attention and special treatment needed
    Symptomatic treatment

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.
    Use fire fighting measures that suit the environment.
    The product is not flammable
  · For safety reasons unsuitable extinguishing agents Water with full jet.
  · Special hazards arising from the substance or mixture
    Formation of toxic gases is possible during heating or in case of fire.
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- Advice for firefighters
  - Protective equipment:
    Wear self-contained respiratory protective device.
    Do not inhale explosion gases or combustion gases.
  - 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.
  Ensure adequate ventilation
- Environmental precautions: Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up:
  Use neutralizing agent.
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  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.
    Avoid contact with eyes and skin.
    Ensure adequate ventilation
  - 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.
    Do not use light alloy receptacles.
  - Information about storage in one common storage facility: Store away from foodstuffs.
  - Further information about storage conditions:
    Protect from heat and direct sunlight.
    Store in cool, dry conditions in well sealed receptacles.
    Protect from frost.
    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:
- 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.
  Keep away from foodstuffs, beverages and feed.
  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.
  Immediately remove all soiled and contaminated clothing
- Breathing equipment:
  Not required.
  Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).
- Protection of hands:
  Alkaline resistant 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:
  Alkaline resistant protective clothing

9 Physical and chemical properties
- Information on basic physical and chemical properties
- General Information
- Appearance:
  Form: Fluid
  Color: Colorless
  Odor: Product specific
  Odor threshold: No further relevant information available.
- pH-value (10 g/l) at 20 °C (68 °F): ~ 11.5
- Change in condition
  Melting point/Melting range: 0 °C (32 °F)
  Boiling point/Boiling range: > 100 °C (> 212 °F)
- Flash point: Not applicable
- Flammability (solid, gaseous): No further relevant information available.
- Ignition temperature: No further relevant information available.
10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - Stable under normal ambient conditions.
  - No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
  - Reacts with metals forming hydrogen
  - Reacts with acids
- **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:**
  - **LD/LC50 values that are relevant for classification:**
    - **CAS:** 1310-58-3 potassium hydroxide
    - **Oral LD50:** 273 mg/kg (rat)
  - **on the skin:** Causes skin irritation.
  - **on the eye:** Causes serious eye irritation.
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<table>
<thead>
<tr>
<th>Sensitization: Based on available data, the classification criteria are not met.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional toxicological information:</td>
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<tr>
<td>Carcinogenic categories</td>
</tr>
<tr>
<td>IARC (International Agency for Research on Cancer)</td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
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<tr>
<td>NTP (National Toxicology Program)</td>
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<tr>
<td>None of the ingredients is listed.</td>
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<tr>
<td>OSHA-Ca (Occupational Safety &amp; Health Administration)</td>
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<tr>
<td>None of the ingredients is listed.</td>
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</tbody>
</table>

12 Ecological information

**Toxicity**

- **Aquatic toxicity:**
  - CAS: 1310-58-3 potassium hydroxide
  - LC50 80 mg/l (Fish) (96 h; Gambusia affinis)
  - 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: Must not reach bodies of water or drainage ditch undiluted or unneutralized. 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 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

- **UN-Number**
  - DOT, ADR, IMDG, IATA: UN3266
Trade name: Viva Plex

- **UN proper shipping name**: Corrosive liquid, basic, inorganic, n.o.s. (pentapotassium triphosphate, Potassium hydroxide)
- **DOT**: 3266 Corrosive liquid, basic, inorganic, n.o.s. (pentapotassium triphosphate, Potassium hydroxide)
- **ADR**
- **IMDG, IATA**: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (pentapotassium triphosphate, POTASSIUM HYDROXIDE)

- **Transport hazard class(es)**
  - **DOT**
    - **Class**: 8 Corrosive substances
    - **Label**: 8
  - **ADR**
    - **Class**: 8 (C5) Corrosive substances
    - **Label**: 8
  - **IMDG, IATA**
    - **Class**: 8 Corrosive substances
    - **Label**: 8

- **Packing group**: III

- **Environmental hazards**: Not applicable.

- **Special precautions for user**: Warning: Corrosive substances
  - **Danger code (Kemler)**: 80
  - **EMS Number**: F-A,S-B
  - **Segregation groups**: Alkalis
  - **Stowage Category**: A
  - **Stowage Code**: SW2 Clear of living quarters.
  - **Segregation Code**: SG35 Stow "separated from" acids.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**: Not applicable.
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- **Transport/Additional information:**
  - **DOT**
    - Quantity limitations
      - On passenger aircraft/rail: 5 L
      - On cargo aircraft only: 60 L
  - **ADR**
    - Excepted quantities (EQ)
      - Code: E1
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 1000 ml
  - **IMDG**
    - Limited quantities (LQ) 5L
    - Excepted quantities (EQ)
      - Code: E1
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**
  - UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (PENTAPOTASSIUM TRIPHOSPHATE, POTASSIUM HYDROXIDE), 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: 1310-58-3 potassium hydroxide

- **Sara**
  - **Section 355 (extremely hazardous substances):**
    - None of the ingredients is listed.
  - **Section 313 (specific toxic chemical listings):**
    - None of the ingredients is listed.

- **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.
  - **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.

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- New Jersey Right-to-Know List:
  - CAS: 1310-58-3 potassium hydroxide

- New Jersey Special Hazardous Substance List:
  - CAS: 1310-58-3 potassium hydroxide

- Pennsylvania Right-to-Know List:
  - CAS: 1310-58-3 potassium hydroxide

- Pennsylvania Special Hazardous Substance List:
  - CAS: 1310-58-3 potassium hydroxide

- 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: 04/05/2017 / 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
  Met. Corr. 1: Corrosive to metals – Category 1
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

* Data compared to the previous version altered.