1 Identification

- Product identifier
  - Trade name: Versenate Hardness Titrating Solution
    W/AF 1 ml = 400 mg/L Ca & Mg
  - Article number: 205-13

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    OFI Testing Equipment Inc.
    11302 Steeplecrest Dr.
    Houston, TX 77065
    (877) 837-8683
  - Information department: techservices@ofite.com
  - Emergency telephone number:
    INFOTRAC USA - CANADA: 1-800-535-5053
    INTERNATIONAL: 1-352-323-3500

2 Hazard(s) identification

- Classification of the substance or mixture
  The product is not classified according to the Globally Harmonized System (GHS).

- Label elements
  - GHS label elements Not Applicable
  - Hazard pictograms Not Applicable
  - Signal word Not Applicable
  - Hazard statements Not Applicable
  - Precautionary statements
    Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 2
    - Fire = 1
    - Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    - HEALTH = 2
      - Health = 2
    - FIRE = 1
      - Fire = 1
    - REACTIVITY = 0
      - Reactivity = 0

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

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:
  - CAS: 57-55-6 1,2 Propanediol (Propylene Glycol) 35.809%
  - (Contd. on page 2)
Trade name: Versenate Hardness Titrating Solution  
W/AF 1 ml = 400 mg/L Ca & Mg

4 First-aid measures

- Description of first aid measures
  - General information: No special measures required.
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Generally the product does not irritate the skin.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing: If symptoms persist consult doctor.
  - 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 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: Use fire fighting measures that suit the environment.
  - Special hazards arising from the substance or mixture No further relevant information available.

- Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
- 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.
- Protective Action Criteria for Chemicals
  - PAC-1:
    - CAS: 57-55-6 1,2 Propanediol (Propylene Glycol) 30 mg/m³
    - CAS: 6381-92-6 Ethylenedinitrilotetraacetic acid, disodium salt 30 mg/m³
  - PAC-2:
    - CAS: 57-55-6 1,2 Propanediol (Propylene Glycol) 1,300 mg/m³
    - CAS: 6381-92-6 Ethylenedinitrilotetraacetic acid, disodium salt 330 mg/m³
  - PAC-3:
    - CAS: 57-55-6 1,2 Propanediol (Propylene Glycol) 7,900 mg/m³
7 Handling and storage

· Handling:
  · Precautions for safe handling No special measures required.
  · 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: No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: None.
  · Specific end use(s) No further relevant information available.

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:

<table>
<thead>
<tr>
<th>CAS: 57-55-6 1,2 Propanediol (Propylene Glycol)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TWA</strong> Short-term value: 10 mg/m³</td>
</tr>
<tr>
<td>weel</td>
</tr>
<tr>
<td><strong>WEEL</strong> Long-term value: 10 mg/m³</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.
  · Breathing equipment: Not required.

· Protection of hands:
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
  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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling.

· Body protection: Protective work clothing
### 9 Physical and chemical properties

**· Information on basic physical and chemical properties**  
**· General Information**  
**· Appearance:**  
Form: Liquid  
Color: Clear  
Odor: Odorless  
Odor threshold: Not determined.  
**· pH-value:** Not determined.  
**· Change in condition**  
Melting point/Melting range: Undetermined.  
Boiling point/Boiling range: Undetermined.  
Flash point: 101 °C (214 °F)  
Flammability (solid, gaseous): Not applicable.  
Ignition temperature:  
Decomposition temperature: Not determined.  
Auto igniting: Product is not selfigniting.  
Danger of explosion: Product does not present an explosion hazard.  
**· Explosion limits:**  
Lower: Not determined.  
Upper: Not determined.  
Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)  
Density at 20 °C (68 °F): 1.03001 g/cm³ (8.595 lbs/gal)  
Relative density: Not determined.  
Vapor density: Not determined.  
Evaporation rate: Not determined.  
Solubility in / Miscibility with Water: Not miscible or difficult to mix.  
Partition coefficient (n-octanol/water): Not determined.  
Viscosity:  
Dynamic: Not determined.  
Kinematic: Not determined.  
Solvent content:  
Organic solvents: 0.0 %  
Water: 63.8 %  
VOC content: 0.0 g/l / 0.00 lb/gl  
*Other information*  
No further relevant information available.

### 10 Stability and reactivity

**· Reactivity** No further relevant information available.  
**· Chemical stability**  
**· Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      CAS: 57-55-6 1,2 Propanediol (Propylene Glycol)
      | Oral | LD50          | 20000 mg/kg (rat) |
      | Dermal | LD50        | 20800 mg/kg (rabbit) |
      | Irritation of skin | Skin Corrosion/Irritation | (Human) |
      | Irritation of eyes | Eye damage/eye irritation | (rabbit) |
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    The product is not subject to classification according to internally approved calculation methods for preparations:
    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.

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - 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
  - Aquatic toxicity: No further relevant information available.
  - 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: Not known to be hazardous to water.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
13 Disposal considerations

- Other adverse effects: No further relevant information available.

14 Transport information

- UN-Number
  - DOT, ADN, IMDG, IATA: Not regulated

- UN proper shipping name
  - DOT, ADN, IATA: Not regulated
  - IMDG: Not Regulated

- Transport hazard class(es)
  - DOT, ADN, IMDG, IATA: Not regulated
  - Class: Not regulated

- Packing group
  - DOT, IMDG, IATA: Not regulated

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Not applicable.

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

- UN "Model Regulation": Not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - 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):
      - CAS: 57-55-6 1,2 Propanediol (Propylene Glycol)
    - Proposition 65
      - Chemicals known to cause cancer:
        - None of the ingredients is 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.

- **Department issuing SDS:** Environment protection department.
- **Contact:**
- **Date of preparation / last revision**
  - Revision 0.1, 05-01-2015: revised to correct emergency contact and information dept contact. STN
  - Creation date for SDS 07-15-2014  LS
  - Revision 0.2, 07-03-2017: Reviewed SDS. STN 07/03/2017 /
- **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)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - 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

(Contd. on page 8)
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