1 Identification

- **Product identifier**
- **Trade name:** **NexxZr Effect Coloring Liquid Blue**
- **Application of the substance / the mixture** Manufacture of dental prothesis

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
  - Manufacturer: Sagemax Bioceramics, Inc.
    34210 9th Avenue South, Suite 118
    Federal Way, WA 98003 USA
    Tel. +1 253-214-0389 / +1 877-386-0389
    Fax +1 888-856-2615
  - EC Representative:
    AB Ardent
    Generatorgatan 8
    SE-19560 Arlandastad / Sweden
    Tel. +46 8594 412 57
    Fax +46 8591 161 83

- **Information department:**
  - Quality Assurance / Regulatory Affairs
  - USA: support@sagemax.com
  - EU: info@sagemax.com

- **Emergency telephone number:**
  - 24 Hour Emergency Assistance:
    - Emergency-Call USA - Infotrac: 1-800-535-5053
    - Emergency-Call Canada - Canutec: 1-613-996-6666
  - General SDS Assistance:
    - US: 1-800-533-6825
    - Canada: 1-800-263-8182

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  - Eye Dam. 1 H318 Causes serious eye damage.

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

- **Hazard pictograms**

  GHS05

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - inorganic nitrate salts

(Contd. on page 2)
Trade name: NexxZr Effect Coloring Liquid Blue

Hazard statements
Causes severe skin burns and eye damage.

Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
NFPA ratings (scale 0 - 4)

Health = 3
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 3
Fire = 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: 16454-60-7 neodymium(III) nitrate hexahydrate 2.5-<10%

4 First-aid measures

Description of first aid measures
After inhalation:
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact: Immediately rinse with water.
After eye contact:
Rinse opened eye for several minutes under running water.
Call a doctor immediately.
After swallowing:
Rinse out mouth and then drink plenty of water.
Seek medical treatment.

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

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:
Do not allow product to reach sewage system or any water course.
Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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:
None of the ingredients is listed.

PAC-2:
None of the ingredients is listed.

PAC-3:
None of the ingredients is listed.

7 Handling and storage

Handling:

Precautions for safe handling
Only adequately trained personnel should handle this product.
For use in dentistry only.

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.
Information about storage in one common storage facility: Store away from metals.

Further information about storage conditions:
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.

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.
Trade name: NexxZr Effect Coloring Liquid Blue

- **Control parameters**
- **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.

- **Exposure controls**
- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    Usual hygienic measures for dental practice and dental laboratories.
    Keep away from foodstuffs, beverages and feed.
    Wash hands before breaks and at the end of work.
    Immediately remove all soiled and contaminated clothing.
    Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**

  ![](image)

  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  After use of gloves apply skin-cleaning agents and skin cosmetics.

  **Material of gloves**
  Natural rubber, NR
  Chloroprene rubber, CR
  Nitrile rubber, NBR
  Butyl rubber, BR
  Fluorocarbon rubber (Viton)

  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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:**

  ![](image)

  Tightly sealed goggles

---

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
  - **Appearance:**
    - **Form:** Fluid
    - **Color:** Blue
    - **Odor:** Characteristic
  - **Odor threshold:** Not determined.
  - **pH-value at 20 °C (68 °F):** <2
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
Trade name: NexxZr Effect Coloring Liquid Blue

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability: Stable under normal handling and storage conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: Reacts with various metals.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: Corrosive action on metals.
- Hazardous decomposition products: None under normal conditions of storage and use.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity: Based on available data, the classification criteria are not met.
  - on the skin: Caustic effect on skin and mucous membranes.
  - on the eye: Strong irritant with the danger of severe eye injury.
  - Additional toxicological information:
    Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Carcinogenic categories

- 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:
      Water hazard class 1 (Self-assessment): slightly hazardous for water
      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:
    Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number, DOT, ADR/RID/ADN, IMDG, IATA
  UN3264
- UN proper shipping name
  DOT Corrosive liquid, acidic, inorganic, n.o.s. (inorganic nitrate salts)
- ADR/RID/ADN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (inorganic nitrate salts)
- IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (inorganic nitrate salts)
- Transport hazard class(es)
  - DOT
    - Class 8 Corrosive substances
    - Label 8 (Contd. on page 7)
**Safety Data Sheet**

**Trade name:** NexxZr Effect Coloring Liquid Blue

(Contd. of page 6)

<table>
<thead>
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<th>Environmental hazards:</th>
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<td>Warning: Corrosive substances</td>
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<td>Danger code (Kemler):</td>
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<td>EMS Number:</td>
<td>F-A,S-B</td>
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<td>Segregation groups</td>
<td>Acids</td>
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<td>Stowage Category</td>
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<tr>
<td>Stowage Code</td>
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<table>
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<td>Maximum net quantity per outer packaging: 500 ml</td>
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<tr>
<td></td>
<td>Maximum net quantity per outer packaging: 500 ml</td>
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| UN "Model Regulation":                                                 | UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (INORGANIC NITRATE SALTS), 8, II |

### 15 Regulatory information

<table>
<thead>
<tr>
<th>Safety, health and environmental regulations/legislation specific for the substance or mixture</th>
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<tbody>
<tr>
<td>Sara</td>
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<tr>
<td>Section 355 (extremely hazardous substances):</td>
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<tr>
<td>None of the ingredients is listed.</td>
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<tr>
<td>Section 313 (Specific toxic chemical listings):</td>
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<tr>
<td>All ingredients are listed.</td>
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</tbody>
</table>

(Contd. on page 8)
### Safety Data Sheet

**Trade name:** NexxZr Effect Coloring Liquid Blue

| **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. |

| **Carcinogenic categories** |
| **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. |

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

| **Hazard pictograms** |
| GHS05 |

| **Signal word** Danger |

| **Hazard-determining components of labeling:** |
| inorganic nitrate salts |

| **Hazard statements** |
| Causes severe skin burns and eye damage. |

| **Precautionary statements** |
| Wear protective gloves/protective clothing/eye protection/face protection. |

| **If on skin (or hair):** |
| Take off immediately all contaminated clothing. Rinse skin with water/shower. |

| **If in eyes:** |
| Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

| **Immediately call a POISON CENTER/doctor.** |
| Dispose of contents/container in accordance with local/regional/national/international regulations. |

| **National regulations:** |

| **Other regulations, limitations and prohibitive regulations** |
| The product is a medical device according to the Directive 93/42/EEC. |

| **This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.** |

| **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.

- **Date of preparation / last revision:** 11/19/2018 / -
- **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)
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1