SAFETY DATA SHEET
Zone Temporary Cement

Section 1. Identification

| GHS product identifier                      | Zone Temporary Cement                      |
| Other means of identification               | Zone Free Temporary Cement, Zone Temporary Cement Shade A1 |
| Product type                                | Paste.                                     |

Relevant identified uses of the substance or mixture and uses advised against

Product use: Dental product: Temporary cement
Area of application: Professional applications.

Manufacturer: DUX DENTAL Inc.
600 E. Hueneme Road
Oxnard, CA  93033
Telephone no.: 805-488-1122 or 800-833-8267
Fax no.: 800-444-5170
www.duxdental.com

e-mail address of person responsible for this SDS: edwin.varela@kavokerrgroup.com

Emergency telephone number (with hours of operation): CHEMTREC® (24 hours) U.S. : 1-800-424-9300   International: +1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Health effects are based on the uncured material.

Classification of the substance or mixture:
- SKIN IRRITATION - Category 2
- EYE IRRITATION - Category 2A
- SKIN SENSITIZATION - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

GHS label elements

Hazard pictograms:

Signal word: Warning

Hazard statements:
- Causes serious eye irritation.
- Causes skin irritation.
- May cause an allergic skin reaction.

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United States
Section 2. Hazards identification

Precautionary statements

Prevention: Wear protective gloves. Wear eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage: Not applicable.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified: None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture
Other means of identification: Zone Free Temporary Cement, Zone Temporary Cement Shade A1

CAS number/other identifiers

CAS number: Not applicable.
Product code: 27029, 27041, 27042, 27046, 27045, 27039, 27040, 27043, 27044, 27047

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Other names</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc oxide</td>
<td>zinc oxide</td>
<td>30-60</td>
<td>1314-13-2</td>
</tr>
<tr>
<td>2-ethoxybenzoic acid</td>
<td>2-ethoxybenzoic acid</td>
<td>10-30</td>
<td>134-11-2</td>
</tr>
<tr>
<td>benzocaine</td>
<td>benzocaine</td>
<td>1-5</td>
<td>94-09-7</td>
</tr>
<tr>
<td>acetic acid</td>
<td>acetic acid</td>
<td>1-5</td>
<td>64-19-7</td>
</tr>
<tr>
<td>methyl 4-hydroxybenzoate</td>
<td>methyl 4-hydroxybenzoate</td>
<td>0.1-1</td>
<td>99-76-3</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

Inhalation: No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Skin contact: No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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Version: 1

United States
Section 4. First aid measures

**Eye contact**: Causes serious eye irritation.

**Inhalation**: No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**: Adverse symptoms may include the following:
- pain or irritation
- watering
- redness

**Inhalation**: No specific data.

**Skin contact**: Adverse symptoms may include the following:
- irritation
- redness

**Ingestion**: No specific data.

**Notes to physician**: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**: Do not use water jet.

**Specific hazards arising from the chemical**: In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- nitrogen oxides
- metal oxide/oxides

**Special protective actions for fire-fighters**: In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely.

For emergency responders: Low release. See also the information in "For non-emergency personnel".

Environmental precautions: Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Large spill: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc oxide</td>
<td>NIOSH REL (United States, 10/2013). CEIL: 15 mg/m³ Form: Dust TWA: 5 mg/m³ 10 hours. Form: Dust and fumes STEL: 10 mg/m³ 15 minutes. Form: Fume OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Fume STEL: 10 mg/m³ 15 minutes. Form: Fume TWA: 5 mg/m³ 8 hours. Form: Respirable fraction STEL: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 2/2013).</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 06/01/2015 Date of previous issue: No previous validation Version: 1
## Section 8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA:</th>
<th>mg/m³</th>
<th>8 hours. Form:</th>
<th>TWA:</th>
<th>mg/m³</th>
<th>8 hours. Form:</th>
<th>STEL:</th>
<th>mg/m³</th>
<th>15 minutes. Form:</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetic acid</td>
<td>5</td>
<td>Fume</td>
<td>2</td>
<td>Respirable fraction</td>
<td>15</td>
<td>Total dust</td>
<td>10</td>
<td>Respirable fraction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>15 minutes.</td>
<td>37</td>
<td>15 minutes.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ACGIH TLV (United States, 4/2014).**

<table>
<thead>
<tr>
<th>TWA:</th>
<th>10 ppm 8 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA:</td>
<td>25 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>STEL:</td>
<td>15 ppm 15 minutes.</td>
</tr>
<tr>
<td>STEL:</td>
<td>37 mg/m³ 15 minutes.</td>
</tr>
</tbody>
</table>

**OSHA PEL 1989 (United States, 3/1989).**

<table>
<thead>
<tr>
<th>TWA:</th>
<th>10 ppm 8 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA:</td>
<td>25 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

**NIOSH REL (United States, 10/2013).**

<table>
<thead>
<tr>
<th>TWA:</th>
<th>10 ppm 10 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA:</td>
<td>25 mg/m³ 10 hours.</td>
</tr>
<tr>
<td>STEL:</td>
<td>15 ppm 15 minutes.</td>
</tr>
<tr>
<td>STEL:</td>
<td>37 mg/m³ 15 minutes.</td>
</tr>
</tbody>
</table>

**OSHA PEL (United States, 2/2013).**

<table>
<thead>
<tr>
<th>TWA:</th>
<th>10 ppm 8 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA:</td>
<td>25 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

### Appropriate engineering controls
- No special measures are required for small quantities under normal and intended conditions of product use.

### Environmental exposure controls
- No special measures are required for small quantities under normal and intended conditions of product use.

### Individual protection measures

#### Hygiene measures
- No special measures are required for small quantities under normal and intended conditions of product use.

#### Eye/face protection
- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

##### Hand protection
- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

##### Body protection
- No special measures are required for small quantities under normal and intended conditions of product use.

##### Other skin protection
- Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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**Date of issue/Date of revision**: 06/01/2015  
**Date of previous issue**: No previous validation  
**Version**: 1  

**United States**
Section 8. Exposure controls/personal protection

**Respiratory protection**: No special measures are required for small quantities under normal and intended conditions of product use.

Section 9. Physical and chemical properties

**Appearance**

- **Physical state**: Liquid. [Paste.]
- **Color**: Base: Yellow./Clear. Catalyst: White.
- **Odor**: Odorless.
- **Odor threshold**: Not available.
- **pH**: Not available.
- **Melting point**: Not available.
- **Boiling point**: Not available.
- **Flash point**: Not available.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.
- **Lower and upper explosive (flammable) limits**: Not available.
- **Vapor pressure**: Not available.
- **Vapor density**: Not available.
- **Relative density**: Not available.
- **Solubility**: Very slightly soluble in the following materials: cold water and hot water.
- **Solubility in water**: Not available.
- **Partition coefficient: n-octanol/water**: Not available.
- **Auto-ignition temperature**: Not available.
- **Decomposition temperature**: Not available.
- **SADT**: Not available.
- **Viscosity**: Not available.

Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

**Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will not occur.

- Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid**: No specific data.

**Incompatible materials**: No specific data.
Section 10. Stability and reactivity

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>benzocaine</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3042 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>acetic acid</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>11000 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>1060 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>methyl 4-hydroxybenzoate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3310 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2100 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc oxide</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>acetic acid</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.5 minutes 5 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 50 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>525 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>methyl 4-hydroxybenzoate</td>
<td>Skin - Mild irritant</td>
<td>Human</td>
<td>-</td>
<td>24 hours 50 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 0.1 Milliliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>504 hours 0.5 Milliliters</td>
<td>Intermittent</td>
</tr>
</tbody>
</table>

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Date of issue/Date of revision: 06/01/2015  Date of previous issue: No previous validation  Version: 1  7/13

United States
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-ethoxybenzoic acid</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>methyl 4-hydroxybenzoate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

**Specific target organ toxicity (repeated exposure)**
Not available.

**Aspiration hazard**
Not available.

**Information on the likely routes of exposure**
Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

- **Eye contact**: Causes serious eye irritation.
- **Inhalation**: No known significant effects or critical hazards.
- **Skin contact**: Causes skin irritation. May cause an allergic skin reaction.
- **Ingestion**: No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

- **Eye contact**: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness
- **Inhalation**: No specific data.
- **Skin contact**: Adverse symptoms may include the following:
  - irritation
  - redness
- **Ingestion**: No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

- **Short term exposure**
  - **Potential immediate effects**: Not available.
  - **Potential delayed effects**: Not available.

- **Long term exposure**
  - **Potential immediate effects**: Not available.
  - **Potential delayed effects**: Not available.

**Potential chronic health effects**
Not available.

- **General**: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- **Carcinogenicity**: No known significant effects or critical hazards.

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**Date of previous issue**: No previous validation
**Version**: 1
United States
Section 11. Toxicological information

- **Mutagenicity**: No known significant effects or critical hazards.
- **Teratogenicity**: No known significant effects or critical hazards.
- **Developmental effects**: No known significant effects or critical hazards.
- **Fertility effects**: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>26091.4 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>67694.3 mg/kg</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>Acute IC50 1.85 mg/l Marine water</td>
<td>Algae - Skeletonema costatum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute IC50 46 µg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata - Exponential growth phase</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 98 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td>Benzocaine</td>
<td>Acute LC50 1.1 ppm Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>Acute LC50 7200 µg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 73400 µg/l Fresh water</td>
<td>Algae - Navicula seminulum</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 650000 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>96 hours</td>
</tr>
<tr>
<td>Methyl 4-hydroxybenzoate</td>
<td>Acute LC50 50.1 ul/L Marine water</td>
<td>Crustaceans - Artemia sp.</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 75000 µg/l Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 41.1 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>-</td>
<td>60960</td>
<td>high</td>
</tr>
<tr>
<td>Benzocaine</td>
<td>1.86</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>-0.17</td>
<td>3.16</td>
<td>low</td>
</tr>
<tr>
<td>Methyl 4-hydroxybenzoate</td>
<td>1.98</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**
**Section 12. Ecological information**

- **Soil/water partition coefficient (K<sub>oc</sub>):** Not available.
- **Other adverse effects:** No known significant effects or critical hazards.

**Section 13. Disposal considerations**

- **Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Section 14. Transport information**

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>Not regulated.</td>
<td>UN3082</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td></td>
<td>Environmentally hazardous substance, liquid, n.o.s. (zinc oxide, benzocaine)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>-</td>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>Yes.</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Emergency schedules (EmS) F-A, S-F Special provisions 274, 335, 969</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y964 Special provisions A97, A158, A197</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision:** 06/01/2015  
**Date of previous issue:** No previous validation  
**Version:** 1  
**United States**
Section 14. Transport information

Special precautions for user: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Section 15. Regulatory information

U.S. Federal regulations:
- TSCA 6 proposed risk management: lead
- United States inventory (TSCA 8b): All components are listed or exempted.
- Clean Water Act (CWA) 307: zinc oxide; Cadmium (Non-pyrophoric); lead
- Clean Water Act (CWA) 311: acetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304
Composition/information on ingredients:
- No products were found.

SARA 304 RQ: Not applicable.

SARA 311/312
Classification: Immediate (acute) health hazard

Composition/information on ingredients:

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>benzocaine</td>
<td>1-5</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
<tr>
<td>acetic acid</td>
<td>1-5</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
<tr>
<td>methyl 4-hydroxybenzoate</td>
<td>0.1-1</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

SARA 313

Date of issue/Date of revision: 06/01/2015
Date of previous issue: No previous validation
Version: 1

United States
Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>30-60</td>
</tr>
<tr>
<td>aluminium oxide</td>
<td>1344-28-1</td>
<td>1-5</td>
</tr>
<tr>
<td>lead</td>
<td>7439-92-1</td>
<td>0.000445</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>30-60</td>
</tr>
<tr>
<td>aluminium oxide</td>
<td>1344-28-1</td>
<td>1-5</td>
</tr>
</tbody>
</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

**Massachusetts**: The following components are listed: ZINC OXIDE FUME; ALUMINUM OXIDE; MAGNESIUM OXIDE FUME; ACETIC ACID

**New York**: The following components are listed: Acetic acid

**New Jersey**: The following components are listed: ZINC OXIDE; ALUMINUM OXIDE; alpha-ALUMINA; MINERAL OIL (UNTREATED and MILDLY TREATED); MAGNESIUM OXIDE; ACETIC ACID; ETHANOIC ACID

**Pennsylvania**: The following components are listed: ZINC OXIDE (ZNO); ALUMINUM OXIDE (AL2O3); MAGNESIUM OXIDE (MGO); ACETIC ACID

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Non-pyrophoric) lead</td>
<td>Yes. Yes.</td>
<td>Yes. Yes.</td>
<td>0.05 µg/day (inhalation) 15 µg/day (ingestion)</td>
<td>4.1 µg/day (ingestion) Yes.</td>
</tr>
</tbody>
</table>

Section 16. Other information

**Hazardous Material Information System (U.S.A.)**

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)**

United States
Section 16. Other information

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

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Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
UN = United Nations

References : HCS (U.S.A.)- Hazard Communication Standard
International transport regulations

⚠ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

References

HCS (U.S.A.)- Hazard Communication Standard
International transport regulations

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