

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

074346458

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

074346466

# MATERIAL SAFETY DATA SHEET

## SEALAPEX (BASE AND CATALYST)

### 1 - IDENTIFICATION

**Manufacturer:** Kerr Corporation  
**Address:** 1717 West Collins Avenue  
**City, State, Zip:** Orange, CA 92867-5422  
**Telephone:** 1-800-KERR-123  
**Emergency:** Chemtrec 1-800-424-9300  
**Date Prepared:** March 2007

### 2 - COMPOSITION INFORMATION

#### Hazardous Ingredients

This product contains no hazardous components as defined in the OSHA Hazard Communication Standard ( 29 CFR 1910.1200 ).

#### Other Ingredients

##### CATALYST

Isobutyl salicylate resin, fumed silica ( silicon dioxide ), bismuth trioxide, titanium dioxide pigment

##### BASE

N-ethyl toluene sulfanamide resin, fumed silica ( silicon dioxide ), zinc oxide, calcium oxide

### 3 - PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** N/E  
**Specific Gravity (H<sub>2</sub>O = 1):** ~1.3  
**Vapor Pressure (mm Hg):** N/A  
**Melting Point:** N/A  
**Vapor Density (AIR = 1):** N/A  
**Solubility in Water:** Insoluble  
**Reactivity in Water:** N/A  
**Appearance and Odor:** Off-white viscous, odorless paste.

### 4 - FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** N/D  
**Flammable Limits:** LEL: N/A UEL: N/A  
**Extinguishing Media:** Carbon dioxide, foam, dry chemical.  
**Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None

### 5 - REACTIVITY DATA

**Stability:** Stable  
**Conditions to Avoid:** None known  
**Incompatibility (Material to Avoid):** N/A  
**Hazardous Decomposition Products:** N/A  
**Hazardous Polymerization:** Will not occur

### 6 - HEALTH HAZARD DATA

#### **Routes of Entry:**

**Skin:** May be irritating to the skin. Repeated contact may cause allergic dermatitis.

**Eyes:** May be irritating to the eyes.

**Inhalation:** Prolonged exposure may cause drowsiness.

**Ingestion:** Consult physician

**Carcinogenicity -** NTP: No

**IARC Monographs:** No **OSHA Regulated Carcinogen:** No

### 7 - EMERGENCY FIRST AID PROCEDURES

**Skin:** Wash with soap and water.

**Eyes:** Flush eyes with water for at least 15 minutes.

**Inhalation:** Remove to fresh air.

**Ingestion:** Consult physician.

### 8 - PRECAUTIONS FOR SAFE HANDLING & USE

**Steps to be taken in case material is released or spilled:** Wipe up with paper towels and dispose of in a suitable container.

**Waste Disposal Method:** Dispose of in accordance with local, state and federal regulations.

**Precautions to be taken in handling and storing:** Store in a cool, dry place. Wash thoroughly after handling.

**Other precautions:** Use according to directions

### 9 - CONTROL MEASURES

**Respiratory Protection (Specify Type):** N/A

**VENTILATION:**

**Local Exhaust:** N/A

**Mechanical (General):** Should be sufficient

**Protective Gloves:** Gloves are recommended.

**Eye Protection:** Safety glasses

**Work/Hygiene Practices:** Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure.

### 10 - TRANSPORTATION INFORMATION

Not DOT regulated.

### 11 - SPECIAL INFORMATION

**HMIS (Hazardous Material Identification System) Rating:**

H1 F0 R0

[HMIS Index: 4 - Severe Hazard; 3 - Serious Hazard;

2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

**Note:** This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information in this MSDS is, to the best of our knowledge, believed to be accurate.

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**Boiling Point:** N/E  
**Specific Gravity (H<sub>2</sub>O = 1):** ~1.3  
**Vapor Pressure (mm Hg):** N/A  
**Melting Point:** N/A  
**Vapor Density (AIR = 1):** N/A  
**Solubility in Water:** Insoluble  
**Reactivity in Water:** N/A  
**Appearance and Odor:** Off-white viscous, odorless paste.

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**Flammable Limits:** LEL: N/A UEL: N/A  
**Extinguishing Media:** Carbon dioxide, foam, dry chemical.  
**Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None

### 5 - REACTIVITY DATA

**Stability:** Stable  
**Conditions to Avoid:** None known  
**Incompatibility (Material to Avoid):** N/A  
**Hazardous Decomposition Products:** N/A  
**Hazardous Polymerization:** Will not occur

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**VENTILATION:**

**Local Exhaust:** N/A

**Mechanical (General):** Should be sufficient

**Protective Gloves:** Gloves are recommended.

**Eye Protection:** Safety glasses

**Work/Hygiene Practices:** Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure.

### 10 - TRANSPORTATION INFORMATION

Not DOT regulated.

### 11 - SPECIAL INFORMATION

**HMIS (Hazardous Material Identification System) Rating:**

H1 F0 R0

[HMIS Index: 4 - Severe Hazard; 3 - Serious Hazard;

2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

**Note:** This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information in this MSDS is, to the best of our knowledge, believed to be accurate.

**Section 1. Identification****GHS product identifier** : Sealapex Canal Sealant Base**Other means of identification** : Not available.**Product type** : Paste.**Relevant identified uses of the substance or mixture and uses advised against****Product use** : Dental product: Endodontic Obturation Systems and Fill Products**Area of application** : Professional applications.**Manufacturer** : **SybronEndo Endodontics**  
1717 West Collins Avenue  
Orange, CA 92867-5422  
Telephone no.: 1-800-KERR-123**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  
SERIOUS EYE DAMAGE - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 45.2%**GHS label elements****Hazard pictograms** :**Signal word** : Danger**Hazard statements** : Causes serious eye damage.  
Causes skin irritation.  
May cause respiratory irritation.**Precautionary statements****Date of issue/Date of revision** : 04/07/2015 **Date of previous issue** : 04/07/2015 **Version** : 1 1/13

## Section 2. Hazards identification

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention</b>                       | : Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Wash hands thoroughly after handling.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Response</b>                         | : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation 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. Immediately call a POISON CENTER or physician. |
| <b>Storage</b>                          | : Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Disposal</b>                         | : Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Supplemental label elements</b>      | : Do not taste or swallow. Wash thoroughly after handling.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Hazards not otherwise classified</b> | : Causes digestive tract burns.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Section 3. Composition/information on ingredients

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not available. |

### CAS number/other identifiers

|                     |                   |
|---------------------|-------------------|
| <b>CAS number</b>   | : Not applicable. |
| <b>Product code</b> | : Not available.  |

| <b>Ingredient name</b>              | <b>Other names</b>                  | <b>%</b> | <b>CAS number</b> |
|-------------------------------------|-------------------------------------|----------|-------------------|
| N-ethyl-o(or p)-toluenesulphonamide | N-ethyl-o(or p)-toluenesulphonamide | 30-60    | 8047-99-2         |
| Calcium oxide                       | calcium oxide                       | 30-60    | 1305-78-8         |
| zinc oxide                          | zinc oxide                          | 1-5      | 1314-13-2         |
| zinc distearate                     | zinc distearate                     | 1-5      | 557-05-1          |

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

|                     |                                                                                                                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.                                                                                                                                   |
| <b>Inhalation</b>   | : No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.                                                                                                                                                                            |
| <b>Skin contact</b> | : No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.                                                                                                                                            |
| <b>Ingestion</b>    | : 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. |

## Section 4. First aid measures

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes skin irritation.
- Ingestion** : Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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** : No specific fire or explosion hazard.

## Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
phosphorus 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. Store locked up. 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

| Ingredient name | Exposure limits                                                                                                                                                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calcium oxide   | <b>ACGIH TLV (United States, 6/2013).</b><br>TWA: 2 mg/m <sup>3</sup> 8 hours.                                                                                                                                                                                           |
|                 | <b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours.                                                                                                                                                                                       |
|                 | <b>NIOSH REL (United States, 10/2013).</b><br>TWA: 2 mg/m <sup>3</sup> 10 hours.                                                                                                                                                                                         |
|                 | <b>OSHA PEL (United States, 2/2013).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours.                                                                                                                                                                                            |
| zinc oxide      | <b>NIOSH REL (United States, 10/2013).</b><br>CEIL: 15 mg/m <sup>3</sup> Form: Dust<br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Dust and fumes<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume                                                                      |
|                 | <b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust |
|                 | <b>OSHA PEL (United States, 2/2013).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br>TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust                                                           |
|                 | <b>ACGIH TLV (United States, 6/2013).</b><br>TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Respirable fraction                                                                                             |
| zinc distearate | <b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust                                                                                                      |
|                 | <b>NIOSH REL (United States, 10/2013).</b><br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Respirable fraction<br>TWA: 10 mg/m <sup>3</sup> 10 hours. Form: Total dust                                                                                                       |
|                 | <b>OSHA PEL (United States, 2/2013).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br>TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust                                                                                                           |
|                 | <b>ACGIH TLV (United States, 6/2013).</b><br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total particulate mass                                                                                                                                                             |

### 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.

Date of issue/Date of revision

: 04/07/2015

Date of previous issue

: 04/07/2015

Version : 1

5/13

## Section 8. Exposure controls/personal protection

### 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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.
- 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** : Solid. [Viscous. Paste.]
- Color** : Off-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 available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 1.3 [Water = 1]
- Solubility** : Insoluble 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.

## Section 9. Physical and chemical properties

**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.

**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

| Product/ingredient name                                | Result                          | Species | Dose       | Exposure |
|--------------------------------------------------------|---------------------------------|---------|------------|----------|
| N-ethyl-o(or p)-toluenesulphonamide<br>zinc distearate | LD50 Oral                       | Rat     | 2250 mg/kg | -        |
|                                                        | LC50 Inhalation Dusts and mists | Rat     | >200 mg/l  | 1 hours  |
|                                                        | LD50 Oral                       | Rat     | >10 g/kg   | -        |

**Conclusion/Summary** : Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.

#### Irritation/Corrosion

| Product/ingredient name                           | Result               | Species | Score | Exposure                | Observation |
|---------------------------------------------------|----------------------|---------|-------|-------------------------|-------------|
| N-ethyl-o(or p)-toluenesulphonamide<br>zinc oxide | Eyes - Mild irritant | Rabbit  | -     | 100 Micrograms          | -           |
|                                                   | Eyes - Mild irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                                                   | Skin - Mild irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |

#### Sensitization

Not available.

#### Conclusion/Summary

**Skin** : Kligman score: Grade I (weak sensitizer)

#### Mutagenicity

Not available.

## Section 11. Toxicological information

**Conclusion/Summary** : No mutagenic effect.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name            | Category   | Route of exposure | Target organs                |
|-----------------|------------|-------------------|------------------------------|
| Calcium oxide   | Category 3 | Not applicable.   | Respiratory tract irritation |
| zinc distearate | Category 3 | Not applicable.   | Respiratory tract irritation |

### 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 damage.

**Inhalation** : May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin contact** : Causes skin irritation.

**Ingestion** : Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.

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

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

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

**Date of issue/Date of revision** : 04/07/2015 **Date of previous issue** : 04/07/2015 **Version** : 1 **8/13**

## Section 11. Toxicological information

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

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

**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

| Route | ATE value    |
|-------|--------------|
| Oral  | 2941.3 mg/kg |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                              | Species                                                                  | Exposure |
|-------------------------|-------------------------------------|--------------------------------------------------------------------------|----------|
| Calcium oxide           | Chronic NOEC 100 mg/l Fresh water   | Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling) | 46 days  |
| zinc oxide              | Acute EC50 0.042 mg/l Fresh water   | Algae - Pseudokirchneriella subcapitata - Exponential growth phase       | 72 hours |
|                         | Acute LC50 98 µg/l Fresh water      | Daphnia - Daphnia magna - Neonate                                        | 48 hours |
|                         | Acute LC50 1.1 ppm Fresh water      | Fish - Oncorhynchus mykiss                                               | 96 hours |
|                         | Chronic NOEC 0.017 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase       | 72 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

## Section 12. Ecological information

| Product/ingredient name | LogP <sub>ow</sub> | BCF   | Potential |
|-------------------------|--------------------|-------|-----------|
| Calcium oxide           | -                  | 2.34  | low       |
| zinc oxide              | -                  | 60960 | high      |
| zinc distearate         | 1.2                | -     | low       |

### Mobility in soil

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

|                            | DOT Classification                                                                                                                                                                                                                                                                                                                   | IMDG                                                                                                                                                                                             | IATA                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN number                  | UN3077                                                                                                                                                                                                                                                                                                                               | UN3077                                                                                                                                                                                           | UN3077                                                                                                                                                                                                                                                                                                                                                                                                                  |
| UN proper shipping name    | Environmentally hazardous substances, solid, n.o.s. (zinc oxide). Marine pollutant (zinc oxide)                                                                                                                                                                                                                                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide). Marine pollutant (zinc oxide)                                                                                                   | Environmentally hazardous substance, solid, n.o.s. (zinc oxide)                                                                                                                                                                                                                                                                                                                                                         |
| Transport hazard class(es) | 9<br>                                                                                                                                                          | 9<br>                      | 9<br>                                                                                                                                                                                                                                         |
| Packing group              | III                                                                                                                                                                                                                                                                                                                                  | III                                                                                                                                                                                              | III                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Environmental hazards      | Yes.                                                                                                                                                                                                                                                                                                                                 | Yes.                                                                                                                                                                                             | Yes.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Additional information     | Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.<br><br><b>Limited quantity</b><br>Yes.<br><br><b>Special provisions</b><br>8, 146, 335, A112, B54, B120, | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.<br><br><b>Emergency schedules (EmS)</b><br>F-A, S-F<br><br><b>Special provisions</b><br>274, 335, 966, 967 | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.<br><br><b>Passenger and Cargo Aircraft</b><br>Quantity limitation: 400 kg<br>Packaging instructions: 956<br><b>Cargo Aircraft Only</b> Quantity limitation: 400 kg<br>Packaging instructions: 956<br><b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 30 kg<br>Packaging instructions: Y956 |

## Section 14. Transport information

|  |                         |  |                                              |
|--|-------------------------|--|----------------------------------------------|
|  | IB8, IP3, N20, T1, TP33 |  | <b>Special provisions</b><br>A97, A158, A179 |
|--|-------------------------|--|----------------------------------------------|

**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 8(a) PAIR:** Siloxanes and Silicones, di-Me, reaction products with silica  
**United States inventory (TSCA 8b):** Not determined.  
**Clean Water Act (CWA) 307:** zinc oxide; zinc distearate  
**Clean Water Act (CWA) 311:** propionic 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

| Name                                | %     | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|-------------------------------------|-------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| N-ethyl-o(or p)-toluenesulphonamide | 30-60 | No.         | No.                        | No.      | Yes.                            | No.                             |
| Calcium oxide                       | 30-60 | No.         | No.                        | No.      | Yes.                            | No.                             |
| zinc oxide                          | 1-5   | No.         | No.                        | No.      | Yes.                            | No.                             |
| zinc distearate                     | 1-5   | Yes.        | No.                        | No.      | Yes.                            | No.                             |

### SARA 313

## Section 15. Regulatory information

|                                 | Product name    | CAS number | %   |
|---------------------------------|-----------------|------------|-----|
| Form R - Reporting requirements | zinc oxide      | 1314-13-2  | 1-5 |
|                                 | zinc distearate | 557-05-1   | 1-5 |
| Supplier notification           | zinc oxide      | 1314-13-2  | 1-5 |
|                                 | zinc distearate | 557-05-1   | 1-5 |

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: CALCIUM OXIDE; ZINC OXIDE FUME; ZINC STEARATE; TITANIUM DIOXIDE
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: CALCIUM OXIDE; LIME; ZINC OXIDE; ZINC STEARATE; OCTADECANOIC ACID, ZINC SALT; TITANIUM DIOXIDE; TITANIUM OXIDE (TiO<sub>2</sub>)
- Pennsylvania** : The following components are listed: CALCIUM OXIDE (CAO); ZINC OXIDE (ZNO); OCTADECANOIC ACID, ZINC SALT; TITANIUM OXIDE (TiO<sub>2</sub>)

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

| Ingredient name  | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|------------------|--------|--------------|---------------------------|---------------------------------|
| Titanium dioxide | Yes.   | No.          | No.                       | No.                             |

## Section 16. Other information

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

|                  |   |   |
|------------------|---|---|
| Health           | * | 3 |
| Flammability     |   | 0 |
| Physical hazards |   | 0 |
|                  |   |   |

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.)



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## Section 16. Other information

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

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of issue/Date of revision | : 04/07/2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Date of previous issue         | : 04/07/2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Version                        | : 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Prepared by                    | : IHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Key to abbreviations           | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>UN = United Nations |
| References                     | : HCS (U.S.A.)- Hazard Communication Standard<br>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.