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 solfanamide resin, fumed silica (silicon dioxide), zinc oxide, calcium oxide

3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/E

Specific Gravity $(H_20 = 1)$: ~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.

MATERIAL SAFETY DATA SHEET

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

BASE

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

3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/E

Specific Gravity $(H_20 = 1)$: ~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

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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.

SAFETY DATA SHEET

Sealapex Canal Sealant Base

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

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Section 2. Hazards identification

Prevention : Wear protective gloves. Wear eye or face protection. Use only outdoors or in a wellventilated area. Avoid breathing dust. Wash hands thoroughly after handling.

Response : 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.

: Store locked up. Storage

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

international regulations.

Supplemental label

elements

: Do not taste or swallow. Wash thoroughly after handling.

Hazards not otherwise : Causes digestive tract burns.

classified

Section 3. Composition/information on ingredients

: Mixture Substance/mixture Other means of

identification

: Not available.

CAS number/other identifiers

CAS number : Not applicable. **Product code** : Not available.

| Ingredient name | Other names | % | CAS number |
|-------------------------------------|---------------------|-------|------------|
| N-ethyl-o(or p)-toluenesulphonamide | N-ethyl-o(or p)- | 30-60 | 8047-99-2 |
| | toluenesulphonamide | | |
| 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

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.

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

: 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.

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Skin contact

Ingestion

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

Eve 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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

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.

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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.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|-----------------|--|
| Calcium oxide | ACGIH TLV (United States, 6/2013). |
| | TWA: 2 mg/m³ 8 hours. |
| | OSHA PEL 1989 (United States, 3/1989). |
| | TWA: 5 mg/m ³ 8 hours. |
| | NIOSH REL (United States, 10/2013). |
| | TWA: 2 mg/m³ 10 hours. |
| | OSHA PEL (United States, 2/2013). |
| | TWA: 5 mg/m³ 8 hours. |
| zinc oxide | 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 |
| | TWA: 10 mg/m³ 8 hours. Form: Total dust |
| | OSHA PEL (United States, 2/2013). |
| | TWA: 5 mg/m³ 8 hours. Form: Fume |
| | TWA: 5 mg/m³ 8 hours. Form: Respirable |
| | fraction |
| | TWA: 15 mg/m³ 8 hours. Form: Total dust |
| | ACGIH TLV (United States, 6/2013). |
| | TWA: 2 mg/m³ 8 hours. Form: Respirable |
| | fraction |
| | STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction |
| zinc distearate | OSHA PEL 1989 (United States, 3/1989). |
| Line distearate | TWA: 5 mg/m³ 8 hours. Form: Respirable |
| | fraction |
| | TWA: 10 mg/m³ 8 hours. Form: Total dust |
| | NIOSH REL (United States, 10/2013). |
| | TWA: 5 mg/m³ 10 hours. Form: Respirable |
| | fraction |
| | TWA: 10 mg/m³ 10 hours. Form: Total |
| | OSHA PEL (United States, 2/2013). |
| | TWA: 5 mg/m³ 8 hours. Form: Respirable |
| | fraction |
| | TWA: 15 mg/m³ 8 hours. Form: Total dust |
| | ACGIH TLV (United States, 6/2013). |
| | TWA: 10 mg/m³ 8 hours. Form: Total |
| | particulate mass |

Appropriate engineering controls

Environmental exposure controls

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

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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

: Not available.

: Not available.

Appearance

Physical state : Solid. [Viscous. Paste.]

Color Off-white. Odor Odorless. : Not available. **Odor threshold** pН : Not available. **Melting point** : Not available. **Boiling point** : Not available. Flash point : Not available. : Not available. **Evaporation rate**

Flammability (solid, gas) Lower and upper explosive

(flammable) limits

Vapor pressure : Not available. Vapor density : Not available.

Relative density : 1.3 [Water = 1]

: Insoluble in the following materials: cold water and hot water. Solubility

Solubility in water : Not available. Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature : Not available.

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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 | LD50 Oral | Rat | 2250 mg/kg | - |
| zinc distearate | LC50 Inhalation Dusts and mists LD50 Oral | Rat Rat | >200 mg/l >10 g/kg | 1 hours - |

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 | Eyes - Mild irritant | Rabbit | - | 100 Micrograms | - |
| zinc oxide | 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.

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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

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Section 11. Toxicological information

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

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 Chronic NOEC 0.017 mg/l Fresh water | Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 96 hours 72 hours |

Persistence and degradability

Not available.

Bioaccumulative potential

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|--------------------------------|--------------|------------------------|--------------|------------|------|
|--------------------------------|--------------|------------------------|--------------|------------|------|

Section 12. Ecological information

| Product/ingredient name | LogPow | BCF | Potential |
|--------------------------|--------|---------------|-------------|
| Calcium oxide zinc oxide | - | 2.34 60960 | low high |
| zinc distearate | 1.2 | - | low |

Mobility in soil

Soil/water partition coefficient (Koc)

: 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 | 9 | 9 |
| 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. Limited quantity Yes. Special provisions 8, 146, 335, A112, B54, B120, | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-A, S-F Special provisions 274, 335, 966, 967 | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Passenger and Cargo Aircraft Quantity limitation: 400 kg Packaging instructions: 956 Cargo Aircraft Only Quantity limitation: 400 kg Packaging instructions: 956 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y956 |

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Section 14. Transport information

IB8, IP3, N20, T1, TP33 Special provisions 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 Calcium oxide zinc oxide zinc distearate | 30-60 30-60 1-5 1-5 | No. No. No. Yes. | No. No. | No. No. No. No. | Yes. Yes. Yes. Yes. | No. No. No. No. |

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Section 15. Regulatory information

| | Product name | CAS number | % |
|---------------------------------|--------------|-----------------------|------------|
| Form R - Reporting requirements | 1 | 1314-13-2 557-05-1 | 1-5 1-5 |
| Supplier notification | | 1314-13-2 557-05-1 | 1-5 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 (TiO2)

Pennsylvania: The following components are listed: CALCIUM OXIDE (CAO); ZINC OXIDE (ZNO);

OCTADECANOIC ACID, ZINC SALT; TITANIUM OXIDE (TIO2)

California Prop. 65

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

| Ingredient name | Cancer | • | | Maximum acceptable dosage level |
|------------------|--------|-----|-----|---------------------------------|
| Titanium dioxide | Yes. | No. | No. | No. |

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.)



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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.

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Key to abbreviations

1

: IHS

: 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

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

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.

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