SAFETY DATA SHEETS

This SDS packet was issued with item: 075752134

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).

075751649 079562915 079562920



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:3MTM ESPETM CAVITTM-G**MANUFACTURER:**3M**DIVISION:**3M ESPE Dental Products

ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 09/25/13 Supercedes Date: Initial Issue

Document Group: 31-1081-4

Product Use:

Intended Use:Dental productLimitations on Use:For use only by dental professionalsSpecific Use:Temporary dental restorative

SECTION 2: INGREDIENTS

| Ingredient | <u>C.A.S. No.</u> | % by Wt |
|---------------------|-------------------|---------|
| ZINC OXIDE | 1314-13-2 | 30 - 50 |
| CALCIUM SULFATE | 7778-18-9 | 1 - 30 |
| TALC | 14807-96-6 | 0 - 20 |
| BARIUM SULFATE | 7727-43-7 | 0 - 20 |
| ZINC SULFATE | 7733-02-0 | 5 - 10 |
| POLY(VINYL ACETATE) | 9003-20-7 | 1 - 5 |

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste

Odor, Color, Grade: Slight odor of acetic acid, grey color

General Physical Form: Solid

Immediate health, physical, and environmental hazards: This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the

MATERIAL SAFETY DATA SHEET 3MTM ESPETM CAVITTM-G 09/25/13

potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Inhalation:

No health effects are expected.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: No need for first aid is anticipated.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

| Autoignition temperature | Not Applicable |
|--------------------------|----------------|
| Flash Point | No flash point |
| Flammable Limits(LEL) | Not Applicable |
| Flammable Limits(UEL) | Not Applicable |
| | |

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air.

6.2. Environmental precautions

Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Clean-up methods

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Clean up residue.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid prolonged or repeated skin contact.

7.2 STORAGE

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Use in an enclosed process area is recommended. Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact. The following eye protection(s) are recommended: Safety Glasses with side shields

8.2.2 Skin Protection

Avoid skin contact. Avoid prolonged or repeated skin contact. Gloves not normally required. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Not applicable. Do not ingest.

8.3 EXPOSURE GUIDELINES

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| Ingredient | Authority | Type | Limit |
|-----------------------------------|-----------|----------------------------------|----------------------------------|
| BARIUM SULFATE | ACGIH | TWA | 10 mg/m3 |
| BARIUM SULFATE | OSHA | TWA, respirable fraction | 5 mg/m3 |
| BARIUM SULFATE | OSHA | TWA, as total dust | 15 mg/m3 |
| CALCIUM SULFATE | ACGIH | TWA, inhalable fraction | 10 mg/m3 |
| CALCIUM SULFATE | OSHA | TWA, respirable fraction | 5 mg/m3 |
| CALCIUM SULFATE | OSHA | TWA, as total dust | 15 mg/m3 |
| Sulfuric acid, barium salt (1:1) | ACGIH | TWA | 10 mg/m3 |
| Sulfuric acid, barium salt (1:1) | OSHA | TWA, respirable fraction | 5 mg/m3 |
| Sulfuric acid, barium salt (1:1) | OSHA | TWA, as total dust | 15 mg/m3 |
| Sulfuric acid, calcium salt (1:1) | ACGIH | TWA, inhalable fraction | 10 mg/m3 |
| Sulfuric acid, calcium salt (1:1) | OSHA | TWA, respirable fraction | 5 mg/m3 |
| Sulfuric acid, calcium salt (1:1) | OSHA | TWA, as total dust | 15 mg/m3 |
| TALC | ACGIH | TWA, respirable fraction | 2 mg/m3 |
| TALC | CMRG | TWA, as respirable dust | 0.5 mg/m3 |
| TALC | OSHA | TWA concentration, respirable | 0.1 mg/m3 |
| TALC | OSHA | TWA concentration, as total dust | 0.3 mg/m3 |
| TALC | OSHA | TWA | 20 millions of particles/cu. ft. |
| ZINC OXIDE | ACGIH | TWA, respirable fraction | 2 mg/m3 |
| ZINC OXIDE | ACGIH | STEL, respirable fraction | 10 mg/m3 |
| ZINC OXIDE | OSHA | TWA, as fume | 5 mg/m3 |
| ZINC OXIDE | OSHA | TWA, respirable fraction | 5 mg/m3 |
| ZINC OXIDE | OSHA | TWA, as total dust | 15 mg/m3 |

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) Boiling Point Density Vapor Density Paste Slight odor of acetic acid, grey color Solid Not Applicable Not Applicable Not Applicable Not Applicable 2.6 g/cm3 - 3 g/cm3 Not Applicable

Additional Information

Vapor Pressure

Specific Gravity pH Melting point

Solubility in Water Evaporation rate Volatile Organic Compounds Kow - Oct/Water partition coef Percent volatile VOC Less H2O & Exempt Solvents Viscosity Not Applicable

2.6 - 2.8 [*Ref Std:* WATER=1] *Not Applicable No Data Available*

Nil No Data Available Not Applicable Not Applicable Not Applicable Not Applicable No Data Available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: 10.1 Conditions to avoid None known

10.2 Materials to avoid None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide Irritant Vapors or Gases <u>Condition</u> During Combustion During Combustion During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste product in a permitted hazardous waste facility. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material.

EPA Hazardous Waste Number (RCRA): D005 (Barium)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14:TRANSPORT INFORMATION

ID Number(s):

70-2011-0160-0, 70-2011-0466-1, 70-2011-2000-6

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| <u>Ingredient</u> | C.A.S. No | <u>% by Wt</u> |
|-------------------------------|-----------|----------------|
| ZINC SULFATE (ZINC COMPOUNDS) | 7733-02-0 | 5 - 10 |
| ZINC OXIDE (ZINC COMPOUNDS) | 1314-13-2 | 30 - 50 |

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: None

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National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

No revision information is available.

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| Document Group: | 31-1081-4 | Version Number: | 4.00 |
|------------------------|-----------|------------------|----------|
| Issue Date: | 02/25/16 | Supercedes Date: | 08/21/15 |

SECTION 1: Identification

1.1. Product identifier $3M^{TM} ESPE^{TM} CAVIT^{TM}-G$

Product Identification Numbers 70-2011-0466-1, 70-2011-2000-6

1.2. Recommended use and restrictions on use

Recommended use Dental product, Temporary restorative Restrictions on use For use only by dental professionals

| 3M |
|---|
| Oral Care Solutions Division |
| 3M Center, St. Paul, MN 55144-1000, USA |
| 1-888-3M HELPS (1-888-364-3577) |
| |

1.4. Emergency telephone number 1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. Label elements Signal word Not applicable.

Symbols Not applicable.

Pictograms

Not applicable.

2.3. Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|-------------------------------------|------------|------------------------|
| ZINC OXIDE | 1314-13-2 | 30 - 50 Trade Secret * |
| TALC | 14807-96-6 | 10 - 30 Trade Secret * |
| BARIUM SULFATE | 7727-43-7 | 10 - 20 Trade Secret * |
| ETHYLENE BIS(OXYETHYLENE)DIACETATE | 111-21-7 | 10 - 20 Trade Secret * |
| ZINC SULFATE | 7733-02-0 | 1 - 20 Trade Secret * |
| POLY(VINYL ACETATE) | 9003-20-7 | 1 - 10 Trade Secret * |
| SULURIC ACID, CALCIUM SALT, HYDRATE | 10034-76-1 | 1 - 10 Trade Secret * |

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

No need for first aid is anticipated.

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

<u>Substance</u>

Condition

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Carbon monoxide Carbon dioxide Irritant Vapors or Gases During Combustion During Combustion During Combustion

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|-----------------------------------|------------|--------|-----------------------------|---------------------|
| Plaster of Paris | 10034-76-1 | OSHA | TWA(as total dust):15 | |
| (Ca(SO4).1/2H2O) | | | mg/m3;TWA(respirable | |
| | | | fraction):5 mg/m3 | |
| Sulfuric acid, calcium salt (1:1) | 10034-76-1 | OSHA | TWA(as total dust):15 | |
| | | | mg/m3;TWA(respirable | |
| | | | fraction):5 mg/m3 | |
| SULURIC ACID, CALCIUM | 10034-76-1 | ACGIH | TWA(inhalable fraction):10 | |
| SALT, HYDRATE | | | mg/m3 | |
| ZINC OXIDE | 1314-13-2 | ACGIH | TWA(respirable fraction):2 | |
| | | | mg/m3;STEL(respirable | |
| | | | fraction):10 mg/m3 | |
| ZINC OXIDE | 1314-13-2 | OSHA | TWA(as fume):5 | |
| | | | mg/m3;TWA(as total dust):15 | |
| | | | mg/m3;TWA(respirable | |
| | | | fraction):5 mg/m3 | |

| TALC | 14807-96-6 | ACGIH | TWA(respirable fraction):2 mg/m3 | A4: Not class. as human carcin |
|----------------|------------|-------|---|--------------------------------|
| TALC | 14807-96-6 | CMRG | TWA(as respirable dust):0.5 mg/m3 | |
| TALC | 14807-96-6 | OSHA | TWA concentration(as total dust):0.3 mg/m3;TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.);TWA:20 millions of particles/cu. ft. | |
| BARIUM SULFATE | 7727-43-7 | ACGIH | TWA(inhalable fraction):5 mg/m3 | |
| BARIUM SULFATE | 7727-43-7 | OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

Skin/hand protection

See Section 7.1 for additional information on skin protection.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| General Physical Form: |
|---------------------------|
| Specific Physical Form: |
| Odor, Color, Grade: |
| Odor threshold |
| рН |
| Melting point |
| Boiling Point |
| Flash Point |
| Evaporation rate |
| Flammability (solid, gas) |
| Flammable Limits(LEL) |
| |

Solid Paste Slight odor of acetic acid, grey, paste *No Data Available Not Applicable Not Applicable* Flash point > 93 °C (200 °F) *No Data Available* Not Classified *Not Applicable*

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| Flammable Limits(UEL) | Not Applicable |
|---|--------------------------------------|
| Vapor Pressure | Not Applicable |
| Vapor Density | Not Applicable |
| Density | 2.6 g/cm3 - 3 g/cm3 |
| Specific Gravity | 2.6 - 2.8 [<i>Ref Std:</i> WATER=1] |
| Solubility in Water | Nil |
| Solubility- non-water | No Data Available |
| Partition coefficient: n-octanol/ water | Not Applicable |
| Autoignition temperature | Not Applicable |
| Decomposition temperature | No Data Available |
| Viscosity | No Data Available |
| Volatile Organic Compounds | Not Applicable |
| Percent volatile | Not Applicable |
| VOC Less H2O & Exempt Solvents | Not Applicable |

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid None known.

10.5. Incompatible materials None known.

10.6. Hazardous decomposition products

Substance None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

Condition

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

11.1. Information on Toxicological effects

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Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Route | Species | Value |
|---------------------------------------|---|--|
| Ingestion | | No data available; calculated ATE > 5,000 mg/kg |
| Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| Ingestion | Rat | LD50 > 5,000 mg/kg |
| Ingestion | Rat | LD50 > 15,000 mg/kg |
| Dermal | Rabbit | LD50 9,040 mg/kg |
| Ingestion | Rat | LD50 15,594 mg/kg |
| Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Dermal | Professio nal judgeme nt | LD50 estimated to be > 5,000 mg/kg |
| Ingestion | similar compoun ds | LD50 estimated to be > 5,000 mg/kg |
| Dermal | | LD50 estimated to be $> 5,000 \text{ mg/kg}$ |
| Ingestion | Rat | LD50 > 9,700 mg/kg |
| - | Ingestion Dermal Inhalation- Dust/Mist (4 hours) Ingestion Dermal Ingestion Dermal Ingestion Dermal Ingestion Dermal Ingestion Dermal Dermal Dermal Dermal Ingestion Dermal Dermal Dermal | Ingestion Dermal Inhalation- Dust/Mist (4 hours) Ingestion Rat Ingestion Rat Dermal Rabbit Ingestion Rat Dermal Rat Dermal Profession nal judgeme nt Ingestion Similar compoun ds Dermal |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---------------------|---------|---------------------------|
| | | |
| ZINC OXIDE | Human | No significant irritation |
| | and | |
| | animal | |
| TALC | Rabbit | No significant irritation |
| POLY(VINYL ACETATE) | Rabbit | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|----------------|---------|---------------------------|
| ZINC OXIDE | Rabbit | Mild irritant |
| BARIUM SULFATE | Rabbit | No significant irritation |

| TALC | Rabbit | No significant irritation |
|---------------------|---------|---------------------------|
| POLY(VINYL ACETATE) | similar | Moderate irritant |
| | health | |
| | hazards | |

Skin Sensitization

| Name | Species | Value |
|---------------------|---------|--|
| ZINC OXIDE | Guinea | Some positive data exist, but the data are not |
| | pig | sufficient for classification |
| POLY(VINYL ACETATE) | Human | Not sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|------|---------|-----------------|
| TALC | Human | Not sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|------------|----------|--|
| | | |
| ZINC OXIDE | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| ZINC OXIDE | In vivo | Some positive data exist, but the data are not |
| | | sufficient for classification |
| TALC | In Vitro | Not mutagenic |
| TALC | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---------------------|------------|----------|--|
| TALC | Inhalation | Rat | Some positive data exist, but the data are not |
| | | | sufficient for classification |
| POLY(VINYL ACETATE) | Not | Multiple | Not carcinogenic |
| | Specified | animal | |
| | | species | |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure |
|------------|-----------|--|-------------------------------|------------------------|------------------------------------|
| | | | | | Duration |
| ZINC OXIDE | Ingestion | Some positive reproductive/developmental data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 125 mg/kg/day | premating & during gestation |
| TALC | Ingestion | Not toxic to development | Rat | NOAEL 1,600 mg/kg | during organogenesi s |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------------|-----------|--|--|---------|------------------------|----------------------|
| ZINC OXIDE | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 600 mg/kg/day | 10 days |
| ZINC OXIDE | Ingestion | endocrine system hematopoietic system kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Other | NOAEL 500 mg/kg/day | 6 months |

| BARIUM SULFATE | Inhalation | pneumoconiosis | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
|----------------|------------|--|--|-------|------------------------|--------------------------|
| TALC | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| TALC | Inhalation | pulmonary fibrosis respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 18 mg/m3 | 113 weeks |

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| Ingredient | C.A.S. No | <u>% by Wt</u> |
|-------------------------------|-----------|----------------|
| ZINC SULFATE (ZINC COMPOUNDS) | 7733-02-0 | 1 - 20 |
| ZINC OXIDE (ZINC COMPOUNDS) | 1314-13-2 | 30 - 50 |

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 0 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

| Document Group: | 31-1081-4 | Version Number: | 4.00 |
|-----------------|-----------|------------------|----------|
| Issue Date: | 02/25/16 | Supercedes Date: | 08/21/15 |

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