

Safety Data Sheet

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 Document Group:
 19-8901-1
 Version Number:
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 Issue Date:
 05/23/16
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 07/28/14

Product identifier

3MTM ScotchkoteTM Liquid Epoxy Coating 327

ID Number(s):

80-6300-0198-2

Recommended use

Coating, 2 Part Epoxy Coating System

Supplier's details

MANUFACTURER: 3M

DIVISION: Electrical Markets Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

Emergency telephone number

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

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

19-1316-9, 19-1307-8

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3MTM ScotchkoteTM Liquid Epoxy Coating 327 05/23/16



Safety Data Sheet

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 Document Group:
 19-1316-9
 Version Number:
 22.02

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 07/25/18
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SECTION 1: Identification

1.1. Product identifier

3MTM ScotchkoteTM Liquid Epoxy Coating 327 Part B

Product Identification Numbers

80-6116-1519-8, 80-6116-1521-4, 80-6116-1523-0, 80-6116-1525-5, 80-6116-1656-8, 80-6300-0200-6, 80-6300-0202-2, 80-6300-0246-9, CE-1007-0102-4

1.2. Recommended use and restrictions on use

Recommended use

Coating, Part B of a 2 Part Liquid Coating System

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Electrical Markets Division

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

Telephone: 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

2.1. Hazard classification

Acute Toxicity (oral): Category 4. Acute Toxicity (dermal): Category 4. Acute Toxicity (inhalation): Category 4. Serious Eye Damage/Irritation: Category 1. Skin Corrosion/Irritation: Category 1B.

Skin Sensitizer: Category 1B. Carcinogenicity: Category 1A.

Specific Target Organ Toxicity (single exposure): Category 1. Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Page 1 of 13

Danger

Symbols

Corrosion | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Harmful if swallowed.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Harmful if inhaled.
May cause cancer.

Causes damage to organs:

blood or blood-forming organs | cardiovascular system | nervous system | kidney/urinary tract | respiratory system |

Causes damage to organs through prolonged or repeated exposure:

blood or blood-forming organs | cardiovascular system | liver | kidney/urinary tract | respiratory system |

May cause damage to organs through prolonged or repeated exposure: nervous system

Precautionary Statements

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, and eye/face protection.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Page 2 of 13

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

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

40% of the mixture consists of ingredients of unknown acute oral toxicity.

40% of the mixture consists of ingredients of unknown acute dermal toxicity.

40% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|--------------------------------|------------|------------------------|
| FORMALDEHYDE-PHENOL-M- | 57214-10-5 | 35 - 55 Trade Secret * |
| XYLYLENEDIAMINE COPOLYMER | | |
| WOLLASTONITE | 13983-17-0 | 20 - 50 Trade Secret * |
| PHENOL | 108-95-2 | 5 - 17 Trade Secret * |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | 1477-55-0 | 5 - 13 Trade Secret * |
| POLYAMIDE | Unknown | 1 - 3 Trade Secret * |
| (3-AMINOPROPYL)TRIETHOXYSILANE | 919-30-2 | 1 - 3 Trade Secret * |
| QUARTZ SILICA | 14808-60-7 | < 1 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:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

Rinse mouth. Do not induce vomiting. Get immediate 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

Page 3 **of** 13

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

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

SubstanceConditionCarbon monoxideDuring CombustionCarbon dioxideDuring CombustionAmmoniaDuring Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

Page 4 of 13

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 |
|------------------------|------------|--------|-------------------------|-------------------------|
| PHENOL | 108-95-2 | ACGIH | TWA:5 ppm | SKIN, A4: Not class. as |
| | | | | human carcin |
| PHENOL | 108-95-2 | OSHA | TWA:19 mg/m3(5 ppm) | SKIN |
| M-XYLENE-ALPHA,ALPHA'- | 1477-55-0 | ACGIH | CEIL:0.1 mg/m3 | SKIN |
| DIAMINE | | | _ | |
| QUARTZ SILICA | 14808-60-7 | ACGIH | TWA(respirable | A2: Suspected human |
| | | | fraction):0.025 mg/m3 | carcin. |
| QUARTZ SILICA | 14808-60-7 | OSHA | TWA Table Z- | |
| | | | 1(respirable):0.05 | |
| | | | mg/m3;TWA Table Z- | |
| | | | 3(respirable):0.1 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 general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

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:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following

Page 5 of 13

respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Liquid

Odor, Color, Grade: Creamy beige liquid, phenolic odour

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNot ApplicableBoiling Point> 200 °C

Flash Point >=200 °F [Test Method:Closed Cup] [Details:Setaflash]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableVapor PressureNo Data AvailableVapor DensityNo Data Available

Density 1.2 g/ml

Specific Gravity 1.2 [Ref Std:WATER=1]

Solubility In Water <=1 %

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosityNo Data AvailableHazardous Air PollutantsNo Data Available

Volatile Organic Compounds 15 g/l [Details:0.13 lb/gal for Parts A and B as reacted

(calculated EPA Method 24).]

Percent volatile
VOC Less H2O & Exempt Solvents

No Data Available
No Data Available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

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

Page 6 of 13

Strong acids Strong oxidizing agents Reactive metals Reducing agents

10.6. Hazardous decomposition products

Substance

Condition

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.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

Harmful if inhaled.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

Harmful in contact with skin. Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

May cause additional health effects (see below).

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

Harmful if swallowed. Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart

muscle, heart attack, and may be fatal.

Hematopoietic Effects: Signs/symptoms may include generalized weakness, fatigue and alterations in numbers of circulating blood cells.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Prolonged or repeated exposure may cause target organ effects:

Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal.

Hematopoietic Effects: Signs/symptoms may include generalized weakness, fatigue and alterations in numbers of circulating blood cells.

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|---------------|------------|--------------------------------|---|
| QUARTZ SILICA | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |

Additional Information:

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

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

| Name | Route | Species | Value |
|-----------------|----------------------------|---------|--|
| Overall product | Dermal | | No data available; calculated ATE1,000 - 2,000 mg/kg |
| Overall product | Inhalation- Vapor(4 hr) | | No data available; calculated ATE10 - 20 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE300 - 2,000 mg/kg |
| WOLLASTONITE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| WOLLASTONITE | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| PHENOL | Inhalation- Vapor | | LC50 estimated to be 2 - 10 mg/l |

Page 8 of 13

| PHENOL | Dermal | Rat | LD50 670 mg/kg |
|--------------------------------|-------------|--------|------------------------------------|
| PHENOL | Ingestion | Rat | LD50 340 mg/kg |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Inhalation- | Rat | LC50 1.2 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Ingestion | Rat | LD50 980 mg/kg |
| (3-AMINOPROPYL)TRIETHOXYSILANE | Dermal | Rabbit | LD50 4,290 mg/kg |
| (3-AMINOPROPYL)TRIETHOXYSILANE | Ingestion | Rat | LD50 1,570 mg/kg |
| QUARTZ SILICA | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| QUARTZ SILICA | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------------|-----------|---------------------------|
| | Species | , and |
| PHENOL | Rat | Corrosive |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Rat | Corrosive |
| (3-AMINOPROPYL)TRIETHOXYSILANE | Rabbit | Corrosive |
| QUARTZ SILICA | Professio | No significant irritation |
| | nal | _ |
| | judgeme | |
| | nt | |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------------|---------|-----------|
| | | |
| PHENOL | Rabbit | Corrosive |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Rabbit | Corrosive |
| (3-AMINOPROPYL)TRIETHOXYSILANE | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|--------------------------------|---------|----------------|
| PHENOL | Guinea | Not classified |
| | pig | |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Guinea | Sensitizing |
| | pig | - |
| (3-AMINOPROPYL)TRIETHOXYSILANE | Guinea | Sensitizing |
| | pig | |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value | |
|-------------------------------|----------|--|--|
| WOLLASTONITE | In Vitro | Not mutagenic | |
| PHENOL | In Vitro | Some positive data exist, but the data are not sufficient for classification | |
| PHENOL | In vivo | Some positive data exist, but the data are not sufficient for classification | |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | In Vitro | Not mutagenic | |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | In vivo | Not mutagenic | |
| QUARTZ SILICA | In Vitro | Some positive data exist, but the data are not sufficient for classification | |
| QUARTZ SILICA | In vivo | Some positive data exist, but the data are not sufficient for classification | |

Carcinogenicity

| Name | Route | Species | Value |
|--------|--------|---------|--|
| PHENOL | Dermal | Mouse | Some positive data exist, but the data are not |
| | | | sufficient for classification |

| 3M TM Scotchkote TM Liquid Epoxy Coating 327 Part B 07 | 7/25/18 |
|--|---------|
|--|---------|

| PHENOL | Ingestion | Rat | Some positive data exist, but the data are not |
|---------------|------------|--------|--|
| | | | sufficient for classification |
| QUARTZ SILICA | Inhalation | Human | Carcinogenic |
| | | and | |
| | | animal | |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|-------------------------------|-----------|--|---------|------------------------|-----------------------------|
| PHENOL | Ingestion | Not classified for female reproduction | Rat | NOAEL 321 mg/kg/day | 2 generation |
| PHENOL | Ingestion | Not classified for male reproduction | Rat | NOAEL 321 mg/kg/day | 2 generation |
| PHENOL | Ingestion | Not classified for development | Rat | NOAEL 120 mg/kg/day | during organogenesi s |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Ingestion | Not classified for female reproduction | Rat | NOAEL 450 mg/kg/day | 1 generation |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Ingestion | Not classified for male reproduction | Rat | NOAEL 450 mg/kg | 1 generation |
| M-XYLENE-ALPHA,ALPHA'-DIAMINE | Ingestion | Not classified for development | Rat | NOAEL 450 mg/kg/day | 1 generation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---------------------------------------|------------|--|--|-------------------------------|------------------------|---------------------------|
| PHENOL | Dermal | hematoppoitic system | Causes damage to organs | Rat | LOAEL 108 mg/kg | not available |
| PHENOL | Dermal | heart nervous system kidney and/or bladder | Causes damage to organs | Rat | LOAEL 107 mg/kg | 24 hours |
| PHENOL | Dermal | liver | Not classified | Human | NOAEL Not available | not available |
| PHENOL | Inhalation | respiratory irritation | May cause respiratory irritation | Multiple animal species | NOAEL Not available | not available |
| PHENOL | Ingestion | kidney and/or bladder | Causes damage to organs | Rat | NOAEL 120 mg/kg/day | not applicable |
| PHENOL | Ingestion | respiratory system | Causes damage to organs | Human | NOAEL not available | poisoning and/or abuse |
| PHENOL | Ingestion | endocrine system liver | Not classified | Rat | NOAEL 224 mg/kg | not applicable |
| PHENOL | Ingestion | heart | Not classified | Human | NOAEL Not available | poisoning and/or abuse |
| M-XYLENE- ALPHA,ALPHA'- DIAMINE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not avaliable | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--------------|------------|--|--|------------------------|------------------------|-----------------------|
| WOLLASTONITE | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| WOLLASTONITE | Inhalation | pulmonary fibrosis | Not classified | Human and animal | NOAEL Not available | |
| PHENOL | Dermal | nervous system | May cause damage to organs though prolonged or repeated exposure | Rabbit | LOAEL 260 mg/kg/day | 18 days |
| PHENOL | Inhalation | heart liver kidney and/or bladder | Causes damage to organs through prolonged or repeated exposure | Guinea pig | LOAEL 0.1 mg/l | 41 days |

| | | respiratory system | | | | |
|---------------------------------------|------------|--|--|-------------------------------|-----------------------------|-----------------------|
| PHENOL | Inhalation | nervous system | May cause damage to organs though prolonged or repeated exposure | Multiple animal species | LOAEL 0.1 mg/l | 14 days |
| PHENOL | Inhalation | hematopoietic system | Not classified | Human | NOAEL Not available | occupational exposure |
| PHENOL | Inhalation | immune system | Not classified | Rat | NOAEL 0.1 mg/l | 2 weeks |
| PHENOL | Ingestion | kidney and/or bladder | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 12 mg/kg/day | 14 days |
| PHENOL | Ingestion | hematopoietic system | Causes damage to organs through prolonged or repeated exposure | Mouse | LOAEL 1.8 mg/kg/day | 28 days |
| PHENOL | Ingestion | nervous system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 308 mg/kg/day | 13 weeks |
| PHENOL | Ingestion | liver | Not classified | Rat | NOAEL 40 mg/kg/day | 14 days |
| PHENOL | Ingestion | respiratory system | Not classified | Rat | LOAEL 40 mg/kg/day | 14 days |
| PHENOL | Ingestion | immune system | Not classified | Mouse | NOAEL 1.8 mg/kg/day | 28 days |
| PHENOL | Ingestion | endocrine system | Not classified | Rat | NOAEL 120 mg/kg/day | 14 days |
| PHENOL | Ingestion | skin bone, teeth, nails, and/or hair | Not classified | Multiple animal species | NOAEL 1,204 mg/kg/day | 103 weeks |
| M-XYLENE- ALPHA,ALPHA'- DIAMINE | Ingestion | endocrine system blood bone marrow | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| QUARTZ SILICA | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |

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.

Page 11 of 13

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.

EPCRA 311/312 Hazard Classifications:

| Physical | Hazards | |
|----------|---------|--|

Not applicable

Health Hazards

Acute toxicity

Carcinogenicity

Hazard Not Otherwise Classified (HNOC)

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

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

<u>Ingredient</u> <u>C.A.S. No</u> <u>% by Wi</u>

PHENOL 108-95-2 Trade Secret 5 - 17

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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

Corrosive: Yes

Page 12 of 13

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.

HMIS Hazard Classification

Health: *3 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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Reason for Reissue

Conversion to GHS format SDS.

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Page 13 of 13



Safety Data Sheet

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 Document Group:
 19-1307-8
 Version Number:
 14.01

 Issue Date:
 07/25/18
 Supercedes Date:
 07/25/17

SECTION 1: Identification

1.1. Product identifier

3MTM ScotchkoteTM Liquid Epoxy Coating 327 Part A

Product Identification Numbers

80-6116-1518-0, 80-6116-1520-6, 80-6116-1522-2, 80-6116-1524-8, 80-6116-1655-0, 80-6300-0199-0, 80-6300-0201-4, 80-6300-0245-1, CE-1007-0101-6

1.2. Recommended use and restrictions on use

Recommended use

Coating, Part A of a 2-Part Liquid Epoxy Coating System

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Electrical Markets Division

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

Telephone: 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

2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1. Carcinogenicity: Category 1A.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms





Hazard Statements

Causes eye irritation.

May cause an allergic skin reaction.

May cause cancer.

Precautionary Statements

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

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

4% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|------------------------------|-------------|------------------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL- | 25068-38-6 | 55 - 75 Trade Secret * |
| EPICHLOROHYDRIN POLYMER | | |
| WOLLASTONITE | 13983-17-0 | 20 - 40 Trade Secret * |
| GLYCIDYL ETHER OIL | 171263-25-5 | 1 - 5 Trade Secret * |
| TITANIUM DIOXIDE | 13463-67-7 | 1 - 3 Trade Secret * |
| POLYAMIDE | Unknown | < 1.5 Trade Secret * |
| QUARTZ SILICA | 14808-60-7 | < 0.5 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

Page 2 of 11

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. 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

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

SubstanceConditionAldehydesDuring CombustionCarbon monoxideDuring CombustionCarbon dioxideDuring Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially

- 2

available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid eye contact. Avoid breathing of vapors created during cure cycle. Avoid skin contact with hot material. For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. Store away from acids. Store away from oxidizing agents.

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 |
|------------------|------------|--------|-----------------------------|----------------------------|
| TITANIUM DIOXIDE | 13463-67-7 | ACGIH | TWA:10 mg/m3 | A4: Not class. as human |
| | | | _ | carcin |
| TITANIUM DIOXIDE | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m3 | |
| QUARTZ SILICA | 14808-60-7 | ACGIH | TWA(respirable | A2: Suspected human |
| | | | fraction):0.025 mg/m3 | carcin. |
| QUARTZ SILICA | 14808-60-7 | OSHA | TWA Table Z- | |
| | | | 1(respirable):0.05 | |
| | | | mg/m3;TWA Table Z- | |
| | | | 3(respirable):0.1 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

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

11

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:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Liquid

Odor, Color, Grade: Green viscous liquid, slight odor

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNot ApplicableBoiling Point> 200 °C

Flash Point > 200 °F [Test Method: Closed Cup] [Details: Setaflash]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNo Data AvailableVapor DensityNo Data Available

Density 1.5 g/ml

Specific Gravity 1.5 [Ref Std: WATER=1]

Solubility In Water <=1 %

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosityNo Data AvailableHazardous Air PollutantsNo Data Available

Volatile Organic Compounds 15 g/l [Details:0.13 lb/gal for Parts A and B as reacted

(calculated EPA Method 24)]

Percent volatile No Data Available

Page 5 of 11

VOC Less H2O & Exempt Solvents

No Data Available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Strong oxidizing agents
Strong acids
Water
Reducing agents

10.6. Hazardous decomposition products

Substance

Condition

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.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

Vapors from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Vapors released during curing may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Page 6 of 11

Eve Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

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

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|------------------|------------|--------------------------------|---|
| QUARTZ SILICA | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| TITANIUM DIOXIDE | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

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

| Name | Route | Species | Value |
|---|---------------------------------------|---------|--|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | Rat | LD50 > 1,600 mg/kg |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Rat | LD50 > 1,000 mg/kg |
| WOLLASTONITE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| WOLLASTONITE | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| TITANIUM DIOXIDE | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| TITANIUM DIOXIDE | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| TITANIUM DIOXIDE | Ingestion | Rat | LD50 > 10,000 mg/kg |
| QUARTZ SILICA | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| QUARTZ SILICA | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-----------|---------------------------|
| | | |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Rabbit | Mild irritant |
| TITANIUM DIOXIDE | Rabbit | No significant irritation |
| QUARTZ SILICA | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |

Serious Eve Damage/Irritation

| Serious Eye Dumuge, Il Titution | | |
|---|---------|---------------------------|
| Name | Species | Value |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Rabbit | Moderate irritant |
| TITANIUM DIOXIDE | Rabbit | No significant irritation |

Skin Sensitization

| Name | Species | Value |
|---|---------|-------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Human | Sensitizing |
| | and | |
| | animal | |

Page 7 of 11

3MTM ScotchkoteTM Liquid Epoxy Coating 327 Part A 07/25/18

| TITANIUM DIOXIDE | Human | Not classified |
|------------------|--------|----------------|
| | and | |
| | animal | |

Respiratory Sensitization

| Name | Species | Value |
|---|---------|----------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| | | |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | In vivo | Not mutagenic |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| WOLLASTONITE | In Vitro | Not mutagenic |
| TITANIUM DIOXIDE | In Vitro | Not mutagenic |
| TITANIUM DIOXIDE | In vivo | Not mutagenic |
| QUARTZ SILICA | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| QUARTZ SILICA | In vivo | Some positive data exist, but the data are not |
| | | sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|---|------------|----------|--|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN | Dermal | Mouse | Some positive data exist, but the data are not |
| POLYMER | | | sufficient for classification |
| TITANIUM DIOXIDE | Ingestion | Multiple | Not carcinogenic |
| | | animal | |
| | | species | |
| TITANIUM DIOXIDE | Inhalation | Rat | Carcinogenic |
| QUARTZ SILICA | Inhalation | Human | Carcinogenic |
| | | and | |
| | | animal | |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|-----------|--|---------|------------------------|-----------------------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL- EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-ISOPROPYLIDENEDIPHENOL- EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-ISOPROPYLIDENEDIPHENOL- EPICHLOROHYDRIN POLYMER | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesi s |
| 4,4'-ISOPROPYLIDENEDIPHENOL- EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |

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 |
|---|--------|-----------------|----------------|---------|-----------------------------|----------------------|
| 4,4'- ISOPROPYLIDENEDIPH ENOL- EPICHLOROHYDRIN | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |

Page 8 of 11

| POLYMER | | | | | | |
|--|------------|--|--|------------------------|-----------------------------|-----------------------|
| 4,4'- ISOPROPYLIDENEDIPH ENOL- EPICHLOROHYDRIN POLYMER | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 4,4'- ISOPROPYLIDENEDIPH ENOL- EPICHLOROHYDRIN POLYMER | Ingestion | auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| WOLLASTONITE | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| WOLLASTONITE | Inhalation | pulmonary fibrosis | Not classified | Human and animal | NOAEL Not available | |
| TITANIUM DIOXIDE | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| TITANIUM DIOXIDE | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| QUARTZ SILICA | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |

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. 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): D006 (Cadmium), D032 (Hexachlorobenzene)

SECTION 14: Transport Information

Page 9 of 11

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.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Carcinogenicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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: 2 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.

HMIS Hazard Classification

Health: *2 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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Page 10 of 11

Reason for Reissue

Conversion to GHS format SDS.

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