



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M(TM) Adhesive Sealant 760 UV, White, Gray, and Black

Product Identification Numbers

62-5277-3932-0, 62-5277-5232-3, 62-5277-5233-1, 62-5277-5236-4, 62-5277-5237-2, 62-5277-8532-3, 62-5277-9532-2, 62-5278-3932-8, 62-5278-5232-1, 62-5278-5233-9, 62-5278-5236-2, 62-5278-5237-0, 62-5278-8532-1, 62-5278-8533-9, 62-5278-9532-0, 62-5279-3932-6, 62-5279-3936-7, 62-5279-5232-9, 62-5279-5233-7, 62-5279-5236-0, 62-5279-5237-8, 7000121496, 7000121498, 7000046611, 7100010643, 7000121499, 7000046609, 7100171408, 7000000935, 7100160450, 7100139501, 7010330427, 7100139449, 7010367906, 7100097767, 7010367908, 7100143555

1.2. Recommended use and restrictions on use

Recommended use

One component sealant without isocyanates which forms permanent elastic bonds., Sealant

1.3. Supplier's details

| | |
|----------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Industrial Adhesives and Tapes 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

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms

**Hazard Statements**

May cause an allergic skin reaction.
May damage fertility or the unborn child.

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

Response:

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.

Supplemental Information:

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

3% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|------------|------------------------|
| Calcium Carbonate | 471-34-1 | 25 - 45 Trade Secret * |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-[3-(DIMETHOXYMETHYLSILYL)PROPYL]-.OMEGA.-[3-(DIMETHOXYMETHYLSILYL)PROPOXY]- | 75009-88-0 | 20 - 30 Trade Secret * |
| Limestone | 1317-65-3 | < 15 Trade Secret * |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | 68515-49-1 | 5 - 15 Trade Secret * |
| Titanium Dioxide | 13463-67-7 | < 15 Trade Secret * |
| Calcium Oxide | 1305-78-8 | 1 - 5 Trade Secret * |
| Carbon Black (nanomaterial) | 1333-86-4 | < 2 Trade Secret * |
| Fatty Acids, C16-18 | 67701-03-5 | < 2 Trade Secret * |
| Iron Oxide (Fe3O4) | 1317-61-9 | < 2 Trade Secret * |
| SULFONIC ACIDS, C10-18-ALKANE, Ph ESTERS | 70775-94-9 | < 2 Trade Secret * |
| 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- | 1760-24-3 | < 1 Trade Secret * |

| | | |
|----------------------------------|------------|------------------------|
| Diocetyl tinbis(acetylacetonate) | 54068-28-9 | < 1 Trade Secret * |
| VINYLTRIMETHOXYSILANE | 2768-02-7 | < 1 Trade Secret * |
| Hindered Amine | 63843-89-0 | < 0.2 Trade Secret * |
| COPPER | 7440-50-8 | < 0.005 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 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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Substance

Carbon monoxide
 Carbon dioxide
 Hydrogen Gas
 Irritant Vapors or Gases
 Oxides of Nitrogen

Condition

During Combustion
 During Combustion
 During Combustion
 During Combustion
 During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

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.

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 in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. 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. 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 amines.

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 |
|-----------------------------|------------|--------|--|--|
| Calcium Oxide | 1305-78-8 | ACGIH | TWA:2 mg/m3 | |
| Calcium Oxide | 1305-78-8 | OSHA | TWA:5 mg/m3 | |
| Limestone | 1317-65-3 | OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |
| Carbon Black (nanomaterial) | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m3 | A3: Confirmed animal carcin. |
| Carbon Black (nanomaterial) | 1333-86-4 | OSHA | TWA:3.5 mg/m3 | |
| 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 | |
| Limestone | 471-34-1 | OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |
| TIN, ORGANIC COMPOUNDS | 54068-28-9 | ACGIH | TWA(as Sn):0.1 mg/m3;STEL(as Sn):0.2 mg/m3 | A4: Not class. as human carcin, Danger of cutaneous absorption |
| TIN, ORGANIC COMPOUNDS | 54068-28-9 | OSHA | TWA(as Sn):0.1 mg/m3 | |
| COPPER | 7440-50-8 | OSHA | TWA(as Cu, fume):0.1 mg/m3;TWA(as Cu dust or mist):1 mg/m3 | |

| | | | |
|--------------------------------|-----------|-------|---------------------------------|
| COPPER, DUSTS AND MISTS, AS CU | 7440-50-8 | ACGIH | TWA(as Cu dust or mist):1 mg/m3 |
| COPPER, FUME AS CU | 7440-50-8 | ACGIH | TWA(as Cu, fume):0.2 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

None required.

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

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 - 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Solid

Color

Multicolor

Specific Physical Form:

Paste

Odor

Slight Polyether

Odor threshold

No Data Available

pH

Not Applicable

Melting point

No Data Available

Boiling Point

> 120 °C

| | |
|---|---|
| Flash Point | No flash point |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Classified |
| Flammable Limits(LEL) | <i>Not Applicable</i> |
| Flammable Limits(UEL) | <i>Not Applicable</i> |
| Vapor Pressure | <i>Not Applicable</i> |
| Vapor Density | 5 [Test Method:Estimated] [Ref Std: AIR=1] |
| Density | 1.61 g/m3 |
| Specific Gravity | 1.6 [Ref Std: WATER=1] |
| Solubility in Water | Negligible |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | > 200 °C |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | <i>No Data Available</i> |
| Hazardous Air Pollutants | 0 % weight |
| Molecular weight | <i>Not Applicable</i> |
| Percent volatile | 0.8 % weight |
| VOC Less H2O & Exempt Solvents | 13 g/l [Test Method:calculated SCAQMD rule 443.1] |
| VOC Less H2O & Exempt Solvents | 0.8 % [Test Method:calculated per CARB title 2] |

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

Alcohols

Water

Amines

10.6. Hazardous decomposition products

Substance

None known.

Condition

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:

Respiratory Tract Irritation: 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.

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.

May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

| Ingredient | CAS No. | Class Description | Regulation |
|-----------------------------|------------|-------------------------------|---|
| Carbon Black (nanomaterial) | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Titanium Dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | 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 ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Calcium Carbonate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Calcium Carbonate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 3 mg/l |
| Calcium Carbonate | Ingestion | Rat | LD50 6,450 mg/kg |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-[3-(DIMETHOXYMETHYLSILYL)PROPYL]-.OMEGA.-[3-(DIMETHOXYMETHYLSILYL)PROPOXY]- | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-[3-(DIMETHOXYMETHYLSILYL)PROPYL]-.OMEGA.-[3-(DIMETHOXYMETHYLSILYL)PROPOXY]- | Ingestion | Rat | LD50 5,000 mg/kg |
| Limestone | Dermal | Rat | LD50 > 2,000 mg/kg |
| Limestone | Inhalation-Dust/Mist | Rat | LC50 3 mg/l |

| | | | |
|---|--------------------------------|---------------|--------------------------|
| | (4 hours) | | |
| Limestone | Ingestion | Rat | LD50 6,450 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 |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 12.5 mg/l |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Ingestion | Rat | LD50 > 9,700 mg/kg |
| Calcium Oxide | Ingestion | Rat | LD50 > 2,500 mg/kg |
| SULFONIC ACIDS, C10-18-ALKANE, Ph ESTERS | Dermal | Rat | LD50 > 1,000 mg/kg |
| SULFONIC ACIDS, C10-18-ALKANE, Ph ESTERS | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Iron Oxide (Fe3O4) | Dermal | Not available | LD50 3,100 mg/kg |
| Iron Oxide (Fe3O4) | Ingestion | Not available | LD50 3,700 mg/kg |
| Fatty Acids, C16-18 | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Fatty Acids, C16-18 | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Carbon Black (nanomaterial) | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black (nanomaterial) | Ingestion | Rat | LD50 > 8,000 mg/kg |
| VINYLTRIMETHOXYSILANE | Dermal | Rabbit | LD50 3,260 mg/kg |
| VINYLTRIMETHOXYSILANE | Inhalation-Vapor (4 hours) | Rat | LC50 16.8 mg/l |
| VINYLTRIMETHOXYSILANE | Ingestion | Rat | LD50 7,120 mg/kg |
| 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.49, < 2.44 mg/l |
| 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- | Ingestion | Rat | LD50 1,897 mg/kg |
| COPPER | Dermal | Rat | LD50 > 2,000 mg/kg |
| COPPER | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.11 mg/l |
| COPPER | Ingestion | Rat | LD50 > 2,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| Calcium Carbonate | Rabbit | No significant irritation |
| Limestone | Rabbit | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Rabbit | Minimal irritation |
| Calcium Oxide | Human | Corrosive |
| Iron Oxide (Fe3O4) | Rabbit | No significant irritation |
| Carbon Black (nanomaterial) | Rabbit | No significant irritation |
| VINYLTRIMETHOXYSILANE | Rabbit | Minimal irritation |
| 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- | Rabbit | Mild irritant |
| COPPER | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-------------------|---------------|---------------------------|
| Overall product | In vitro data | No significant irritation |
| Calcium Carbonate | Rabbit | No significant irritation |
| Limestone | Rabbit | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |

| | | |
|---|--------|---------------------------|
| PHthalic Acid, DI-C9-11-Branched Alkyl Esters, C10 Rich | Rabbit | Mild irritant |
| Calcium Oxide | Rabbit | Corrosive |
| Iron Oxide (Fe3O4) | Rabbit | No significant irritation |
| Carbon Black (nanomaterial) | Rabbit | No significant irritation |
| VINYLTRIMETHOXYSILANE | Rabbit | No significant irritation |
| 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- | Rabbit | Corrosive |
| COPPER | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|---|-------------------------|----------------|
| Titanium Dioxide | Human and animal | Not classified |
| PHthalic Acid, DI-C9-11-Branched Alkyl Esters, C10 Rich | Guinea pig | Not classified |
| Iron Oxide (Fe3O4) | Human | Not classified |
| VINYLTRIMETHOXYSILANE | Guinea pig | Not classified |
| 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- | Multiple animal species | Sensitizing |
| Diocetyl tin bis(acetylacetonate) | Mouse | Sensitizing |

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 |
|---|----------|--|
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |
| PHthalic Acid, DI-C9-11-Branched Alkyl Esters, C10 Rich | In Vitro | Not mutagenic |
| PHthalic Acid, DI-C9-11-Branched Alkyl Esters, C10 Rich | In vivo | Not mutagenic |
| Calcium Oxide | In Vitro | Not mutagenic |
| Iron Oxide (Fe3O4) | In Vitro | Not mutagenic |
| Carbon Black (nanomaterial) | In Vitro | Not mutagenic |
| Carbon Black (nanomaterial) | In vivo | Some positive data exist, but the data are not sufficient for classification |
| VINYLTRIMETHOXYSILANE | In vivo | Not mutagenic |
| VINYLTRIMETHOXYSILANE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------------|------------|-------------------------|--|
| Titanium Dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |
| Iron Oxide (Fe3O4) | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black (nanomaterial) | Dermal | Mouse | Not carcinogenic |
| Carbon Black (nanomaterial) | Ingestion | Mouse | Not carcinogenic |
| Carbon Black (nanomaterial) | Inhalation | Rat | Carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|-------------------|-----------|--------------------------------|---------|---------------------|--------------------------------|
| Calcium Carbonate | Ingestion | Not classified for development | Rat | NOAEL 625 mg/kg/day | prematuring & during gestation |
| Limestone | Ingestion | Not classified for development | Rat | NOAEL 625 | prematuring & |

| | | | | | |
|---|------------|--|-----|-----------------------|----------------------------|
| | | | | mg/kg/day | during gestation |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Ingestion | Not classified for female reproduction | Rat | NOAEL 927 mg/kg/day | 2 generation |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Ingestion | Not classified for male reproduction | Rat | NOAEL 929 mg/kg/day | 2 generation |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Ingestion | Toxic to development | Rat | NOAEL 38 mg/kg/day | 2 generation |
| VINYLTRIMETHOXYSILANE | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| VINYLTRIMETHOXYSILANE | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| VINYLTRIMETHOXYSILANE | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| VINYLTRIMETHOXYSILANE | Inhalation | Not classified for development | Rat | NOAEL 1.8 mg/l | during organogenesis |
| Diocetyl tinbis(acetylacetonate) | Ingestion | Toxic to development | Rat | NOAEL 1.8 mg/kg/day | prematuring into lactation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-------------------|------------|------------------------|----------------------------------|---------------|---------------------|-----------------------|
| Calcium Carbonate | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| Limestone | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| Calcium Oxide | Inhalation | respiratory irritation | May cause respiratory irritation | Not available | NOAEL Not available | occupational exposure |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|------------|---|--|---------|---------------------|-----------------------|
| Calcium Carbonate | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Limestone | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| 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 |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Inhalation | respiratory system hematopoietic system liver | Not classified | Rat | NOAEL 0.5 mg/l | 2 weeks |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.5 mg/l | 2 generation |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Ingestion | endocrine system | Not classified | Rat | NOAEL 686 mg/kg/day | 90 days |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Ingestion | liver kidney and/or bladder heart | Not classified | Rat | NOAEL 500 mg/kg/day | 90 days |
| PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 320 mg/kg/day | 90 days |
| Iron Oxide (Fe3O4) | Inhalation | pulmonary fibrosis pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Carbon Black (nanomaterial) | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| VINYLTRIMETHOXYSILANE | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL mg/l | 14 weeks |
| VINYLTRIMETHOXYSILANE | Inhalation | hematopoietic | Not classified | Rat | NOAEL 2.4 | 14 weeks |

| LANE | | system eyes | | | mg/l | |
|--|------------|--|--|-----|-----------------------------|---------|
| VINYLTRIMETHOXYSI LANE | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 40 days |
| VINYLTRIMETHOXYSI LANE | Ingestion | endocrine system hematopoietic system liver immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 40 days |
| 1,2-Ethanediamine, N1-[3- (trimethoxysilyl)propyl]- | Inhalation | respiratory system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 0.015 mg/l | 90 days |

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. Proper destruction may require the use of additional fuel during incineration processes. 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.

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 manufacturer for more information

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Reproductive toxicity
Respiratory or Skin Sensitization

Additional TSCA Information

| Components | CAS No | Additional Information |
|--------------------------------|------------|---------------------------|
| Diocetyltnbis(acetylacetonate) | 54068-28-9 | Allowed use(s): Catalyst. |

15.2. State Regulations

Contact manufacturer for more information

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. One or more of the components in this material is not listed on the TSCA inventory, but is approved for specific commercial use(s) under a US EPA low volume exemption.

Contact manufacturer for more information

15.4. International Regulations

Contact manufacturer 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:** 1 **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.

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