



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Nitrile High Performance Plastic Adhesive 1099

#### Product Identification Numbers

| ID Number      | UPC              | ID Number      | UPC              |
|----------------|------------------|----------------|------------------|
| 62-1099-2631-1 | 00-21200-19808-3 | 62-1099-2635-2 |                  |
| 62-1099-6530-1 | 00-21200-19811-3 | 62-1099-7530-0 | 00-21200-19813-7 |
| 62-1099-8530-9 | 00-21200-19814-4 | 62-1099-9530-8 | 00-21200-19815-1 |
| XS-0414-0885-6 |                  |                |                  |

7000000796, 7000121197, 7000000797, 7000121198, 7000000798, 7010309716, 7000149596

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Adhesive, Industrial use

#### 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

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Reproductive Toxicity: Category 1B.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Flame | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause drowsiness or dizziness.

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.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

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

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

**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.

If eye irritation persists: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

Repeated exposure may cause skin dryness or cracking.

**SECTION 3: Composition/information on ingredients**

| Ingredient                      | C.A.S. No. | % by Wt                |
|---------------------------------|------------|------------------------|
| Acetone                         | 67-64-1    | 60 - 70 Trade Secret * |
| Acrylonitrile-Butadiene Polymer | 9003-18-3  | 10 - 20 Trade Secret * |
| Phenolic Polymer                | 55185-45-0 | 5 - 10 Trade Secret *  |
| Phenolic Resin                  | 25085-50-1 | 5 - 10 Trade Secret *  |
| Salicylic Acid                  | 69-72-7    | < 2.5 Trade Secret *   |
| Zinc Oxide                      | 1314-13-2  | < 2 Trade Secret *     |
| Toluene                         | 108-88-3   | < 1 Trade Secret *     |
| Methyl Ethyl Ketone             | 78-93-3    | < 0.5 Trade Secret *   |
| Phenol                          | 108-95-2   | < 0.5 Trade Secret *   |
| o-Cresol                        | 95-48-7    | < 0.3 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:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

### 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 flammable liquids such as dry chemical or carbon dioxide 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

#### Substance

Hydrocarbons  
Formaldehyde  
Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen

#### Condition

During Combustion  
During Combustion  
During Combustion  
During Combustion  
During 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. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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. Cover spill area with a fire-extinguishing foam. 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 using non-sparking tools. Place in a metal 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

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. 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.

| <b>Ingredient</b>              | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>                                                                 | <b>Additional Comments</b>                                     |
|--------------------------------|-------------------|---------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|
| Toluene                        | 108-88-3          | ACGIH         | TWA:20 ppm                                                                        | A4: Not class. as human carcin, Ototoxicant                    |
| Toluene                        | 108-88-3          | OSHA          | TWA:200 ppm;CEIL:300 ppm                                                          |                                                                |
| Phenol                         | 108-95-2          | ACGIH         | TWA:5 ppm                                                                         | A4: Not class. as human carcin, Danger of cutaneous absorption |
| Phenol                         | 108-95-2          | OSHA          | TWA:19 mg/m3(5 ppm)                                                               | SKIN                                                           |
| 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 total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3;TWA(as fume):5 mg/m3 |                                                                |
| Acetone                        | 67-64-1           | ACGIH         | TWA:250 ppm;STEL:500 ppm                                                          | A4: Not class. as human carcin                                 |
| Acetone                        | 67-64-1           | OSHA          | TWA:2400 mg/m3(1000 ppm)                                                          |                                                                |
| Methyl Ethyl Ketone            | 78-93-3           | ACGIH         | TWA:200 ppm;STEL:300 ppm                                                          |                                                                |
| Methyl Ethyl Ketone            | 78-93-3           | OSHA          | TWA:590 mg/m3(200 ppm)                                                            |                                                                |
| CRESOLS (ORTHO-; META-; PARA-) | 95-48-7           | OSHA          | TWA:22 mg/m3(5 ppm)                                                               | SKIN                                                           |
| o-Cresol                       | 95-48-7           | ACGIH         | TWA(inhalable fraction and vapor):20 mg/m3                                        | A4: Not class. as human carcin, Danger of cutaneous absorption |

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. Use explosion-proof ventilation 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:

Safety Glasses with side shields

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: Butyl Rubber

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

Organic vapor respirators may have short service life.

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

Liquid

Color

Light Tan, Pink, White

Odor

Ketones

Odor threshold

No Data Available

pH

Not Applicable

Melting point

No Data Available

Boiling Point

>=56 °C

Flash Point

-4 °F [Test Method:Closed Cup] [Details:Acetone]

Evaporation rate

1.9 [Ref Std:ETHER=1]

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

2.6 % volume [Details:Acetone]

Flammable Limits(UEL)

12.8 % volume [Details:Acetone]

Vapor Pressure

<=185 mmHg [@ 68 °F]

Vapor Density

2.0 [Ref Std:AIR=1]

Density

0.89 g/ml

Specific Gravity

0.89 [Ref Std:WATER=1]

Solubility in Water

Slight (less than 10%)

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

No Data Available

Autoignition temperature

No Data Available

Decomposition temperature

No Data Available

Viscosity

2,000 - 4,000 centipoise [@ 27 °C ]

Hazardous Air Pollutants

<=1.6 % weight [Test Method:Calculated]

Molecular weight

No Data Available

VOC Less H2O & Exempt Solvents

<=101 g/l [Test Method:calculated SCAQMD rule 443.1]

Solids Content

20 - 40 %

## 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  
Sparks and/or flames

**10.5. Incompatible materials**

Strong oxidizing 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:**

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:**

Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**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:****Single exposure may cause target organ effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**Reproductive/Developmental Toxicity:**

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

### 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                 | Inhalation-Vapor(4 hr)         |         | No data available; calculated ATE >50 mg/l     |
| Overall product                 | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| Acetone                         | Dermal                         | Rabbit  | LD50 > 15,688 mg/kg                            |
| Acetone                         | Inhalation-Vapor (4 hours)     | Rat     | LC50 76 mg/l                                   |
| Acetone                         | Ingestion                      | Rat     | LD50 5,800 mg/kg                               |
| Acrylonitrile-Butadiene Polymer | Dermal                         | Rabbit  | LD50 > 15,000 mg/kg                            |
| Acrylonitrile-Butadiene Polymer | Ingestion                      | Rat     | LD50 > 30,000 mg/kg                            |
| Phenolic Resin                  | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Phenolic Resin                  | Ingestion                      | Rat     | LD50 5,660 mg/kg                               |
| Phenolic Polymer                | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Phenolic Polymer                | Ingestion                      |         | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Salicylic Acid                  | Dermal                         | Rat     | LD50 > 2,000 mg/kg                             |
| Salicylic Acid                  | Ingestion                      | Rat     | LD50 891 mg/kg                                 |
| Zinc Oxide                      | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Zinc Oxide                      | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 5.7 mg/l                                |
| Zinc Oxide                      | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| Toluene                         | Dermal                         | Rat     | LD50 12,000 mg/kg                              |
| Toluene                         | Inhalation-Vapor (4 hours)     | Rat     | LC50 30 mg/l                                   |
| Toluene                         | Ingestion                      | Rat     | LD50 5,550 mg/kg                               |
| Methyl Ethyl Ketone             | Dermal                         | Rabbit  | LD50 > 8,050 mg/kg                             |
| Methyl Ethyl Ketone             | Inhalation-Vapor (4 hours)     | Rat     | LC50 34.5 mg/l                                 |
| Methyl Ethyl Ketone             | Ingestion                      | Rat     | LD50 2,737 mg/kg                               |
| Phenol                          | Inhalation-Vapor               |         | LC50 estimated to be 2 - 10 mg/l               |
| Phenol                          | Dermal                         | Rat     | LD50 670 mg/kg                                 |
| Phenol                          | Ingestion                      | Rat     | LD50 340 mg/kg                                 |
| o-Cresol                        | Dermal                         | Rabbit  | LD50 890 mg/kg                                 |
| o-Cresol                        | Inhalation-Vapor (4 hours)     | Rat     | LC50 > 24.5 mg/l                               |
| o-Cresol                        | Ingestion                      | Rat     | LD50 121 mg/kg                                 |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                            | Species                | Value                     |
|---------------------------------|------------------------|---------------------------|
| Acetone                         | Mouse                  | Minimal irritation        |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Salicylic Acid                  | Rabbit                 | No significant irritation |
| Zinc Oxide                      | Human and animal       | No significant irritation |



|                     |        |                    |
|---------------------|--------|--------------------|
| Toluene             | Rabbit | Irritant           |
| Methyl Ethyl Ketone | Rabbit | Minimal irritation |
| Phenol              | Rat    | Corrosive          |
| o-Cresol            | Rabbit | Corrosive          |

**Serious Eye Damage/Irritation**

| Name                            | Species               | Value                     |
|---------------------------------|-----------------------|---------------------------|
| Acetone                         | Rabbit                | Severe irritant           |
| Acrylonitrile-Butadiene Polymer | Professional judgment | No significant irritation |
| Salicylic Acid                  | Rabbit                | Corrosive                 |
| Zinc Oxide                      | Rabbit                | Mild irritant             |
| Toluene                         | Rabbit                | Moderate irritant         |
| Methyl Ethyl Ketone             | Rabbit                | Severe irritant           |
| Phenol                          | Rabbit                | Corrosive                 |
| o-Cresol                        | Rabbit                | Corrosive                 |

**Skin Sensitization**

| Name           | Species    | Value                                                                        |
|----------------|------------|------------------------------------------------------------------------------|
| Phenolic Resin | Human      | Some positive data exist, but the data are not sufficient for classification |
| Salicylic Acid | Mouse      | Not classified                                                               |
| Zinc Oxide     | Guinea pig | Not classified                                                               |
| Toluene        | Guinea pig | Not classified                                                               |
| Phenol         | Guinea pig | Not classified                                                               |

**Photosensitization**

| Name           | Species | Value           |
|----------------|---------|-----------------|
| Salicylic Acid | Mouse   | Not 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                                                                        |
|---------------------|----------|------------------------------------------------------------------------------|
| Acetone             | In vivo  | Not mutagenic                                                                |
| Acetone             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Salicylic Acid      | In Vitro | Not mutagenic                                                                |
| Salicylic Acid      | In vivo  | Not mutagenic                                                                |
| 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 |
| Toluene             | In Vitro | Not mutagenic                                                                |
| Toluene             | In vivo  | Not mutagenic                                                                |
| Methyl Ethyl Ketone | 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 |
| o-Cresol            | In vivo  | Not mutagenic                                                                |
| o-Cresol            | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                | Route         | Species                 | Value                                                                        |
|---------------------|---------------|-------------------------|------------------------------------------------------------------------------|
| Acetone             | Not Specified | Multiple animal species | Not carcinogenic                                                             |
| Toluene             | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Toluene             | Ingestion     | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Toluene             | Inhalation    | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Methyl Ethyl Ketone | Inhalation    | Human                   | Not carcinogenic                                                             |
| Phenol              | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Phenol              | Ingestion     | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| o-Cresol            | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| o-Cresol            | Ingestion     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                | Route      | Value                                              | Species                 | Test Result           | Exposure Duration            |
|---------------------|------------|----------------------------------------------------|-------------------------|-----------------------|------------------------------|
| Acetone             | Ingestion  | Not classified for male reproduction               | Rat                     | NOAEL 1,700 mg/kg/day | 13 weeks                     |
| Acetone             | Inhalation | Not classified for development                     | Rat                     | NOAEL 5.2 mg/l        | during organogenesis         |
| Salicylic Acid      | Ingestion  | Toxic to development                               | Rat                     | NOAEL 75 mg/kg/day    | during organogenesis         |
| Zinc Oxide          | Ingestion  | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day   | premating & during gestation |
| Toluene             | Inhalation | Not classified for female reproduction             | Human                   | NOAEL Not available   | occupational exposure        |
| Toluene             | Inhalation | Not classified for male reproduction               | Rat                     | NOAEL 2.3 mg/l        | 1 generation                 |
| Toluene             | Ingestion  | Toxic to development                               | Rat                     | LOAEL 520 mg/kg/day   | during gestation             |
| Toluene             | Inhalation | Toxic to development                               | Human                   | NOAEL Not available   | poisoning and/or abuse       |
| Methyl Ethyl Ketone | Inhalation | Not classified for development                     | Rat                     | LOAEL 8.8 mg/l        | during gestation             |
| 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 organogenesis         |
| o-Cresol            | Ingestion  | Not classified for female reproduction             | Rat                     | NOAEL 450 mg/kg/day   | 2 generation                 |
| o-Cresol            | Ingestion  | Not classified for male reproduction               | Rat                     | NOAEL 450 mg/kg/day   | 2 generation                 |
| o-Cresol            | Ingestion  | Not classified for development                     | Rat                     | NOAEL 175 mg/kg/day   | 2 generation                 |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                | Route      | Target Organ(s)                                | Value                                                                        | Species                 | Test Result         | Exposure Duration      |
|---------------------|------------|------------------------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|------------------------|
| Acetone             | Inhalation | central nervous system depression              | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Acetone             | Inhalation | respiratory irritation                         | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Acetone             | Inhalation | immune system                                  | Not classified                                                               | Human                   | NOAEL 1.19 mg/l     | 6 hours                |
| Acetone             | Inhalation | liver                                          | Not classified                                                               | Guinea pig              | NOAEL Not available |                        |
| Acetone             | Ingestion  | central nervous system depression              | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | poisoning and/or abuse |
| Toluene             | Inhalation | central nervous system depression              | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Toluene             | Inhalation | respiratory irritation                         | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Toluene             | Inhalation | immune system                                  | Not classified                                                               | Mouse                   | NOAEL 0.004 mg/l    | 3 hours                |
| Toluene             | Ingestion  | central nervous system depression              | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | poisoning and/or abuse |
| Methyl Ethyl Ketone | Inhalation | central nervous system depression              | May cause drowsiness or dizziness                                            | official classification | NOAEL Not available |                        |
| Methyl Ethyl Ketone | Inhalation | respiratory irritation                         | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Methyl Ethyl Ketone | Ingestion  | central nervous system depression              | May cause drowsiness or dizziness                                            | Professional judgement  | NOAEL Not available |                        |
| Methyl Ethyl Ketone | Ingestion  | liver                                          | Not classified                                                               | Rat                     | NOAEL Not available | not applicable         |
| Methyl Ethyl Ketone | Ingestion  | kidney and/or bladder                          | Not classified                                                               | Rat                     | LOAEL 1,080 mg/kg   | not applicable         |
| Phenol              | Dermal     | hematopoietic 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 |
| o-Cresol            | Inhalation | respiratory irritation                         | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| o-Cresol            | Ingestion  | central nervous system depression              | May cause drowsiness or dizziness                                            | Rat                     | LOAEL 68 mg/kg      |                        |

#### Specific Target Organ Toxicity - repeated exposure

| Name    | Route      | Target Organ(s) | Value          | Species    | Test Result         | Exposure Duration |
|---------|------------|-----------------|----------------|------------|---------------------|-------------------|
| Acetone | Dermal     | eyes            | Not classified | Guinea pig | NOAEL Not available | 3 weeks           |
| Acetone | Inhalation | hematopoietic   | Not classified | Human      | NOAEL 3             | 6 weeks           |

|                |            |                                                                 |                                                                              |                         |                        |                        |
|----------------|------------|-----------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------|------------------------|------------------------|
|                |            | system                                                          |                                                                              |                         | mg/l                   |                        |
| Acetone        | Inhalation | immune system                                                   | Not classified                                                               | Human                   | NOAEL 1.19 mg/l        | 6 days                 |
| Acetone        | Inhalation | kidney and/or bladder                                           | Not classified                                                               | Guinea pig              | NOAEL 119 mg/l         | not available          |
| Acetone        | Inhalation | heart   liver                                                   | Not classified                                                               | Rat                     | NOAEL 45 mg/l          | 8 weeks                |
| Acetone        | Ingestion  | kidney and/or bladder                                           | Not classified                                                               | Rat                     | NOAEL 900 mg/kg/day    | 13 weeks               |
| Acetone        | Ingestion  | heart                                                           | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day  | 13 weeks               |
| Acetone        | Ingestion  | hematopoietic system                                            | Not classified                                                               | Rat                     | NOAEL 200 mg/kg/day    | 13 weeks               |
| Acetone        | Ingestion  | liver                                                           | Not classified                                                               | Mouse                   | NOAEL 3,896 mg/kg/day  | 14 days                |
| Acetone        | Ingestion  | eyes                                                            | Not classified                                                               | Rat                     | NOAEL 3,400 mg/kg/day  | 13 weeks               |
| Acetone        | Ingestion  | respiratory system                                              | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day  | 13 weeks               |
| Acetone        | Ingestion  | muscles                                                         | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg      | 13 weeks               |
| Acetone        | Ingestion  | skin   bone, teeth, nails, and/or hair                          | Not classified                                                               | Mouse                   | NOAEL 11,298 mg/kg/day | 13 weeks               |
| Salicylic Acid | Ingestion  | liver                                                           | Not classified                                                               | Rat                     | NOAEL 500 mg/kg/day    | 3 days                 |
| Zinc Oxide     | Ingestion  | nervous system                                                  | Not classified                                                               | Rat                     | NOAEL 600 mg/kg/day    | 10 days                |
| Zinc Oxide     | Ingestion  | endocrine system   hematopoietic system   kidney and/or bladder | Not classified                                                               | Other                   | NOAEL 500 mg/kg/day    | 6 months               |
| Toluene        | Inhalation | auditory system   eyes   olfactory system                       | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available    | poisoning and/or abuse |
| Toluene        | Inhalation | nervous system                                                  | May cause damage to organs though prolonged or repeated exposure             | Human                   | NOAEL Not available    | poisoning and/or abuse |
| Toluene        | Inhalation | respiratory system                                              | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 2.3 mg/l         | 15 months              |
| Toluene        | Inhalation | heart   liver   kidney and/or bladder                           | Not classified                                                               | Rat                     | NOAEL 11.3 mg/l        | 15 weeks               |
| Toluene        | Inhalation | endocrine system                                                | Not classified                                                               | Rat                     | NOAEL 1.1 mg/l         | 4 weeks                |
| Toluene        | Inhalation | immune system                                                   | Not classified                                                               | Mouse                   | NOAEL Not available    | 20 days                |
| Toluene        | Inhalation | bone, teeth, nails, and/or hair                                 | Not classified                                                               | Mouse                   | NOAEL 1.1 mg/l         | 8 weeks                |
| Toluene        | Inhalation | hematopoietic system   vascular system                          | Not classified                                                               | Human                   | NOAEL Not available    | occupational exposure  |
| Toluene        | Inhalation | gastrointestinal tract                                          | Not classified                                                               | Multiple animal species | NOAEL 11.3 mg/l        | 15 weeks               |
| Toluene        | Ingestion  | nervous system                                                  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day    | 13 weeks               |
| Toluene        | Ingestion  | heart                                                           | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day  | 13 weeks               |
| Toluene        | Ingestion  | liver   kidney and/or bladder                                   | Not classified                                                               | Multiple animal         | NOAEL 2,500            | 13 weeks               |

|                     |            |                                                                                                                                                                      |                                                                  | species                 | mg/kg/day             |                       |
|---------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------|-----------------------|-----------------------|
| Toluene             | Ingestion  | hematopoietic system                                                                                                                                                 | Not classified                                                   | Mouse                   | NOAEL 600 mg/kg/day   | 14 days               |
| Toluene             | Ingestion  | endocrine system                                                                                                                                                     | Not classified                                                   | Mouse                   | NOAEL 105 mg/kg/day   | 28 days               |
| Toluene             | Ingestion  | immune system                                                                                                                                                        | Not classified                                                   | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks               |
| Methyl Ethyl Ketone | Dermal     | nervous system                                                                                                                                                       | Not classified                                                   | Guinea pig              | NOAEL Not available   | 31 weeks              |
| Methyl Ethyl Ketone | Inhalation | liver   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles | Not classified                                                   | Rat                     | NOAEL 14.7 mg/l       | 90 days               |
| Methyl Ethyl Ketone | Ingestion  | liver                                                                                                                                                                | Not classified                                                   | Rat                     | NOAEL Not available   | 7 days                |
| Methyl Ethyl Ketone | Ingestion  | nervous system                                                                                                                                                       | Not classified                                                   | Rat                     | NOAEL 173 mg/kg/day   | 90 days               |
| 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   respiratory system                                                                                                           | Causes damage to organs through prolonged or repeated exposure   | Guinea pig              | LOAEL 0.1 mg/l        | 41 days               |
| 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             |
| o-Cresol            | Ingestion  | nervous system                                                                                                                                                       | Not classified                                                   | Rat                     | NOAEL 600 mg/kg/day   | 90 days               |
| o-Cresol            | Ingestion  | hematopoietic system   liver   immune system   kidney and/or bladder                                                                                                 | Not classified                                                   | Rat                     | NOAEL 2,024 mg/kg/day | 90 days               |

**Aspiration Hazard**

| Name    | Value             |
|---------|-------------------|
| Toluene | Aspiration hazard |

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.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal 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):** D001 (Ignitable), D023 (o-Cresol), D035 (Methyl ethyl ketone)

## 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

Flammable (gases, aerosols, liquids, or solids)

##### Health Hazards

Hazard Not Otherwise Classified (HNOC)

Reproductive toxicity

Serious eye damage or eye 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><b>Ingredient</b></u>    | <u><b>C.A.S. No</b></u> | <u><b>% by Wt</b></u> |
|-----------------------------|-------------------------|-----------------------|
| Zinc Oxide (ZINC COMPOUNDS) | 1314-13-2               | Trade Secret < 2      |

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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:** 3 **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.

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