

# **Safety Data Sheet**

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# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Nitrile High Performance Plastic Adhesive 1099

#### **Product Identification Numbers**

62-1099-2631-1, 62-1099-2635-2, 62-1099-6530-1, 62-1099-7530-0, 62-1099-8530-9, 62-1099-9530-8

#### 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.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 2.

Specific Target Organ Toxicity (central nervous system): Category 3.

#### 2.2. Label elements

# Signal word

Danger

#### **Symbols**

Flame | Exclamation mark | Health Hazard |

### **Pictograms**

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### **Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

### **Precautionary Statements**

#### General:

Keep out of reach of children.

#### **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.

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.

If eye irritation persists: Get medical advice/attention.

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

Wash contaminated clothing before reuse.

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

None.

# **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 Resin                  | 25085-50-1 | 5 - 10 Trade Secret *  |
| Phenolic Polymer                | 55185-45-0 | 5 - 10 Trade Secret *  |
| Salicylic Acid                  | 69-72-7    | 1 - 5 Trade Secret *   |
| Zinc Oxide                      | 1314-13-2  | 1 - 3 Trade Secret *   |
| Phenol                          | 108-95-2   | < 0.4 Trade Secret *   |
| o-Cresol                        | 95-48-7    | < 0.3 Trade Secret *   |

<sup>\*</sup>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.

#### **Eve 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

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 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          | <b>Condition</b>  |
|--------------------|-------------------|
| Hydrocarbons       | During Combustion |
| Formaldehyde       | During Combustion |
| Carbon monoxide    | During Combustion |
| Carbon dioxide     | During Combustion |
| Oxides of Nitrogen | During Combustion |
|                    |                   |

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### 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. 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. An appropriate aqueous film forming foam (AFFF) is recommended. 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.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Keep out of reach of children. 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. Avoid breathing 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.) 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.

| Ingredient IC.A.5. No. Tagency ILlinit type Tadditional Comment | Ingredient | C.A.S. No. As | gency | Limit type | <b>Additional Comments</b> |
|---|------------|---------------|-------|------------|----------------------------|
|---|------------|---------------|-------|------------|----------------------------|

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| Phenol                  | 108-95-2  | ACGIH | TWA:5 ppm                   | A4: Not class. as human |
|-------------------------|-----------|-------|-----------------------------|-------------------------|
|                         |           |       |                             | carcin, Skin Notation   |
| Phenol                  | 108-95-2  | OSHA  | TWA:19 mg/m3(5 ppm)         | Skin Notation           |
| Zinc Oxide              | 1314-13-2 | OSHA  | TWA(as fume):5              |                         |
|                         |           |       | mg/m3;TWA(as total dust):15 |                         |
|                         |           |       | mg/m3;TWA(respirable        |                         |
|                         |           |       | fraction):5 mg/m3           |                         |
| Zinc Oxide              | 1314-13-2 | ACGIH | TWA(respirable fraction):2  |                         |
|                         |           |       | mg/m3;STEL(respirable       |                         |
|                         |           |       | fraction):10 mg/m3          |                         |
| Acetone                 | 67-64-1   | OSHA  | TWA:2400 mg/m3(1000 ppm)    |                         |
| Acetone                 | 67-64-1   | ACGIH | TWA:500 ppm;STEL:750 ppm    | A4: Not class. as human |
|                         |           |       |                             | carcin                  |
| CRESOLS (ORTHO-; META-; | 95-48-7   | OSHA  | TWA:22 mg/m3(5 ppm)         | Skin Notation           |
| PARA-)                  |           |       |                             |                         |
| o-Cresol                | 95-48-7   | ACGIH | TWA(inhalable fraction and  | A4: Not class. as human |
|                         |           |       | vapor):20 mg/m3             | carcin, Skin Notation   |

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:

**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 respirator type(s) to reduce inhalation exposure:

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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

General Physical Form: Liquid

Odor, Color, Grade: White/pink to light tan liquid - ketone odor

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNo 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 Gravity0.89 [Ref Std: WATER=1]Solubility in WaterSlight (less than 10%)Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data Available

**Viscosity** 2,000 - 4,000 centipoise [@ 27 °C ] **Hazardous Air Pollutants** <=1 % weight [*Test Method*: Calculated]

**VOC Less H2O & Exempt Solvents** <=20 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

<u>Substance</u> <u>Condition</u>

None known.

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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:**

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:**

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 | Ingestion   |         | No data available; calculated ATE > 5,000 mg/kg |
| Acetone         | Dermal      | Rabbit  | LD50 > 15,688 mg/kg                             |
| Acetone         | Inhalation- | Rat     | LC50 76 mg/l                                    |
|                 | Vapor (4    |         |   |
|                 | hours)      |         |   |

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| 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                  | Ingestion   | Rat    | LD50 5,660 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- | Rat    | LC50 > 5.7  mg/l                         |
|                                 | Dust/Mist   |        |  |
|                                 | (4 hours)   |        |  |
| Zinc Oxide                      | Ingestion   | Rat    | LD50 > 5,000 mg/kg                       |
| Phenol                          | Inhalation- |        | LC50 estimated to be 2 - 10 mg/l         |
|                                 | Vapor       |        |  |
| 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- | Rat    | LC50 > 24.5 mg/l                         |
|                                 | Vapor (4    |        |  |
|                                 | hours)      |        |  |
| 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 | Professio | No significant irritation |
|                                 | nal       |                           |
|                                 | judgeme   |                           |
|                                 | nt        |                           |
| Salicylic Acid                  | Rabbit    | No significant irritation |
| Zinc Oxide                      | Human     | No significant irritation |
|                                 | and       |                           |
|                                 | animal    |                           |
| Phenol                          | Rat       | Corrosive                 |

**Serious Eye Damage/Irritation** 

| Name                            | Species   | Value                     |
|---------------------------------|-----------|---------------------------|
| Acetone                         | Rabbit    | Severe irritant           |
| Acrylonitrile-Butadiene Polymer | Professio | No significant irritation |
|                                 | nal       |                           |
|                                 | judgeme   |                           |
|                                 | nt        |                           |
| Salicylic Acid                  | Rabbit    | Corrosive                 |
| Zinc Oxide                      | Rabbit    | Mild irritant             |
| Phenol                          | 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 sensitizing  |
| Zinc Oxide     | Guinea pig | Some positive data exist, but the data are not sufficient for classification |
| Phenol         | Guinea pig | Not sensitizing  |

# 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 |
| 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 |

Carcinogenicity

| Name    | Route     | Species  | Value  |
|---------|-----------|----------|--|
| Acetone | Not       | Multiple | Not carcinogenic                               |
|         | Specified | animal   |  |
|         | _         | species  |  |
| 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                  |

# Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name           | Route      | Value  | Species                       | Test Result                  | Exposure<br>Duration         |
|----------------|------------|--|-------------------------------|------------------------------|------------------------------|
| Acetone        | Ingestion  | Not toxic to female reproduction   | Mouse                         | NOAEL<br>11,298<br>mg/kg/day | 13 weeks                     |
| Acetone        | Ingestion  | Some positive male reproductive data exist, but the data are not sufficient for classification                   | Rat                           | NOAEL<br>1,700<br>mg/kg/day  | 13 weeks                     |
| Acetone        | Inhalation | Some positive developmental data exist,<br>but the data are not sufficient for<br>classification                 | Rat                           | NOAEL 5.2<br>mg/l            | during<br>organogenesi<br>s  |
| Salicylic Acid | Ingestion  | Toxic to development   | Rat                           | NOAEL 75<br>mg/kg/day        | during<br>organogenesi<br>s  |
| Zinc Oxide     | Ingestion  | Some positive<br>reproductive/developmental data exist,<br>but the data are not sufficient for<br>classification | Multiple<br>animal<br>species | NOAEL 125<br>mg/kg/day       | premating & during gestation |
| Phenol         | Ingestion  | Some positive female reproductive data exist, but the data are not sufficient for classification                 | Rat                           | NOAEL 321<br>mg/kg/day       | 2 generation                 |
| Phenol         | Ingestion  | Some positive male reproductive data exist, but the data are not sufficient for classification                   | Rat                           | NOAEL 321<br>mg/kg/day       | 2 generation                 |
| Phenol         | Ingestion  | Some positive developmental data exist,<br>but the data are not sufficient for<br>classification                 | Rat                           | NOAEL 120<br>mg/kg/day       | during<br>organogenesi<br>s  |

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure |
|------|-------|-----------------|-------|---------|-------------|----------|

|         |            |  |  |                               |                        | Duration                  |
|---------|------------|--|--|-------------------------------|------------------------|---------------------------|
| Acetone | Inhalation | central nervous<br>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<br>available |                           |
| Acetone | Inhalation | immune system  | Some positive data exist, but the data are not sufficient for classification | Human                         | NOAEL 1.19<br>mg/l     | 6 hours                   |
| Acetone | Inhalation | liver  | Some positive data exist, but the data are not sufficient for classification | Guinea<br>pig                 | NOAEL Not<br>available |                           |
| Acetone | Ingestion  | central nervous<br>system depression                 | May cause drowsiness or dizziness  | Human                         | NOAEL Not available    | poisoning<br>and/or abuse |
| Phenol  | Dermal     | hematoppoitic<br>system                              | Causes damage to organs  | Rat                           | LOAEL 108<br>mg/kg     | not available             |
| Phenol  | Dermal     | heart   nervous<br>system   kidney<br>and/or bladder | Causes damage to organs  | Rat                           | LOAEL 107<br>mg/kg     | 24 hours                  |
| Phenol  | Dermal     | liver  | Some positive data exist, but the data are not sufficient for classification | Human                         | NOAEL Not<br>available | not available             |
| Phenol  | Inhalation | respiratory irritation                               | May cause respiratory irritation   | Multiple<br>animal<br>species | NOAEL Not<br>available | not available             |
| Phenol  | Ingestion  | kidney and/or<br>bladder                             | Causes damage to organs  | Rat                           | NOAEL 120<br>mg/kg/day | not applicable            |
| Phenol  | Ingestion  | respiratory system                                   | Causes damage to organs  | Human                         | NOAEL not available    | poisoning<br>and/or abuse |
| Phenol  | Ingestion  | endocrine system  <br>liver                          | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL 224<br>mg/kg     | not applicable            |
| Phenol  | Ingestion  | heart  | Some positive data exist, but the data are not sufficient for classification | Human                         | NOAEL Not<br>available | poisoning<br>and/or abuse |

**Specific Target Organ Toxicity - repeated exposure** 

| Name    | Route      | Target Organ(s)          | Value  | Species       | Test Result                 | Exposure<br>Duration |
|---------|------------|--------------------------|--|---------------|-----------------------------|----------------------|
| Acetone | Dermal     | eyes                     | Some positive data exist, but the data are not sufficient for classification | Guinea<br>pig | NOAEL Not<br>available      | 3 weeks              |
| Acetone | Inhalation | hematopoietic<br>system  | Some positive data exist, but the data are not sufficient for classification | Human         | NOAEL 3<br>mg/l             | 6 weeks              |
| Acetone | Inhalation | immune system            | Some positive data exist, but the data are not sufficient for classification | Human         | NOAEL 1.19<br>mg/l          | 6 days               |
| Acetone | Inhalation | kidney and/or<br>bladder | Some positive data exist, but the data are not sufficient for classification | Guinea<br>pig | NOAEL 119<br>mg/l           | not available        |
| Acetone | Inhalation | heart   liver            | All data are negative  | Rat           | NOAEL 45<br>mg/l            | 8 weeks              |
| Acetone | Ingestion  | kidney and/or<br>bladder | Some positive data exist, but the data are not sufficient for classification | Rat           | NOAEL 900<br>mg/kg/day      | 13 weeks             |
| Acetone | Ingestion  | heart                    | Some positive data exist, but the data are not sufficient for classification | Rat           | NOAEL<br>2,500<br>mg/kg/day | 13 weeks             |
| Acetone | Ingestion  | hematopoietic<br>system  | Some positive data exist, but the data are not sufficient for classification | Rat           | NOAEL 200<br>mg/kg/day      | 13 weeks             |
| Acetone | Ingestion  | liver                    | Some positive data exist, but the data are not sufficient for classification | Mouse         | NOAEL<br>3,896<br>mg/kg/day | 14 days              |
| Acetone | Ingestion  | eyes                     | All data are negative  | Rat           | NOAEL<br>3,400<br>mg/kg/day | 13 weeks             |

| Acetone        | Ingestion  | respiratory system   | All data are negative  | Rat                           | NOAEL<br>2,500                    | 13 weeks              |
|----------------|------------|--|--|-------------------------------|-----------------------------------|-----------------------|
| Acetone        | Ingestion  | muscles  | All data are negative  | Rat                           | mg/kg/day<br>NOAEL<br>2,500 mg/kg | 13 weeks              |
| Acetone        | Ingestion  | skin   bone, teeth,<br>nails, and/or hair                                | All data are negative  | Mouse                         | NOAEL<br>11,298<br>mg/kg/day      | 13 weeks              |
| Salicylic Acid | Ingestion  | liver  | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL 500<br>mg/kg/day            | 3 days                |
| Zinc Oxide     | Ingestion  | nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL 600<br>mg/kg/day            | 10 days               |
| Zinc Oxide     | Ingestion  | endocrine system  <br>hematopoietic<br>system   kidney<br>and/or bladder | Some positive data exist, but the data are not sufficient for classification | Other                         | NOAEL 500<br>mg/kg/day            | 6 months              |
| Phenol         | Dermal     | nervous system   | May cause damage to organs<br>though prolonged or repeated<br>exposure       | Rabbit                        | LOAEL 260<br>mg/kg/day            | 18 days               |
| Phenol         | Inhalation | heart   liver   kidney<br>and/or bladder  <br>respiratory system         | Causes damage to organs<br>through prolonged or repeated<br>exposure         | Guinea<br>pig                 | LOAEL 0.1<br>mg/l                 | 41 days               |
| Phenol         | Inhalation | nervous system   | May cause damage to organs<br>though prolonged or repeated<br>exposure       | Multiple<br>animal<br>species | LOAEL 0.1<br>mg/l                 | 14 days               |
| Phenol         | Inhalation | hematopoietic<br>system  | Some positive data exist, but the data are not sufficient for classification | Human                         | NOAEL Not<br>available            | occupational exposure |
| Phenol         | Inhalation | immune system  | All data are negative  | Rat                           | NOAEL 0.1<br>mg/l                 | 2 weeks               |
| Phenol         | Ingestion  | kidney and/or<br>bladder   | Causes damage to organs<br>through prolonged or repeated<br>exposure         | Rat                           | NOAEL 12<br>mg/kg/day             | 14 days               |
| Phenol         | Ingestion  | hematopoietic<br>system  | Causes damage to organs<br>through prolonged or repeated<br>exposure         | Mouse                         | LOAEL 1.8<br>mg/kg/day            | 28 days               |
| Phenol         | Ingestion  | nervous system   | May cause damage to organs<br>though prolonged or repeated<br>exposure       | Rat                           | LOAEL 308<br>mg/kg/day            | 13 weeks              |
| Phenol         | Ingestion  | liver  | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL 40<br>mg/kg/day             | 14 days               |
| Phenol         | Ingestion  | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Rat                           | LOAEL 40<br>mg/kg/day             | 14 days               |
| Phenol         | Ingestion  | immune system  | Some positive data exist, but the data are not sufficient for classification | Mouse                         | NOAEL 1.8<br>mg/kg/day            | 28 days               |
| Phenol         | Ingestion  | endocrine system   | All data are negative  | Rat                           | NOAEL 120<br>mg/kg/day            | 14 days               |
| Phenol         | Ingestion  | skin   bone, teeth,<br>nails, and/or hair                                | All data are negative  | Multiple<br>animal<br>species | NOAEL<br>1,204<br>mg/kg/day       | 103 weeks             |

### **Aspiration Hazard**

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

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

# **SECTION 12: Ecological information**

# **Ecotoxicological information**

### 3M<sup>TM</sup> Nitrile High Performance Plastic Adhesive 1099 05/08/15

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)

# **SECTION 14: Transport Information**

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

# **SECTION 15: Regulatory information**

## 15.1. US Federal Regulations

Contact 3M for more information.

## 311/312 Hazard Categories:

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

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

IngredientC.A.S. No% by WoZinc Oxide (ZINC COMPOUNDS)1314-13-21 - 3

# 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.

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.

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# **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.

**Document Group:** 10-2442-1 **Version Number:** 41.00 **Issue Date:** 05/08/15 **Supercedes Date:** 07/10/13

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