



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Structural Adhesive Film 6068 Series (SAF 6068-015, SAF 6068-040)

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

##### Recommended use

Automotive - Industrial/Professional use, Structural Adhesive Film for Automotive Bonding Applications

#### 1.3. Supplier's details

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                          |
| <b>DIVISION:</b>     | Automotive and Aerospace Solutions Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA     |
| <b>Telephone:</b>    | 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

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

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable.

#### 2.3. Hazards not otherwise classified

94% of the mixture consists of ingredients of unknown acute oral toxicity.

94% of the mixture consists of ingredients of unknown acute dermal toxicity.

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

| <b>Ingredient</b>                                      | <b>C.A.S. No.</b> | <b>% by Wt</b>       |
|--------------------------------------------------------|-------------------|----------------------|
| NITRILE RUBBER/PHENOLIC EPOXY RESINS/PHENOLIC RESIN    | Trade Secret*     | 60 - 100             |
| DICYANDIAMIDE                                          | 461-58-5          | 3 - 7                |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA                    | 150-68-5          | 1 - 5 Trade Secret * |
| NYLON OR POLYESTER CLOTH (CONTAINS ONE OR MORE SCRIMS) | Unknown           | 1 - 5                |

\*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:**

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

**Eye Contact:**

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

**If Swallowed:**

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

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

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

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

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Aldehydes  
Carbon monoxide  
Carbon dioxide  
Hydrogen Chloride  
Hydrogen Cyanide  
Ammonia

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion

Oxides of Nitrogen

During Combustion

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

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

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial or professional use only. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

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

No special storage requirements.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

**8.2. Exposure controls****8.2.1. Engineering controls**

No engineering controls required.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

None required.

**Skin/hand protection**

No chemical protective gloves are required.

**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

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:                  | Solid                                |
| Specific Physical Form:                 | Film                                 |
| Odor, Color, Grade:                     | Odorless Red                         |
| Odor threshold                          | No Data Available                    |
| pH                                      | Not Applicable                       |
| Melting point                           | No Data Available                    |
| Boiling Point                           | Not Applicable                       |
| Flash Point                             | No flash point                       |
| Evaporation rate                        | Not Applicable                       |
| Flammability (solid, gas)               | Not Classified                       |
| Flammable Limits(LEL)                   | Not Applicable                       |
| Flammable Limits(UEL)                   | Not Applicable                       |
| Vapor Pressure                          | Not Applicable                       |
| Vapor Density                           | Not Applicable                       |
| Density                                 | No Data Available                    |
| Specific Gravity                        | Approximately 1.1 [Ref Std: WATER=1] |
| Solubility in Water                     | Nil                                  |
| Solubility- non-water                   | No Data Available                    |
| Partition coefficient: n-octanol/ water | No Data Available                    |
| Autoignition temperature                | Not Applicable                       |
| Decomposition temperature               | No Data Available                    |
| Viscosity                               | Not Applicable                       |
| Volatile Organic Compounds              | < 1 %                                |
| Percent volatile                        | < 1 %                                |
| VOC Less H2O & Exempt Solvents          | < 1 %                                |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Avoid curing large quantities of material to prevent a premature reaction (exotherm) with production of intense heat and smoke.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

**Substance**

None known.

**Condition**

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

##### Inhalation:

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

##### Skin Contact:

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

##### Eye Contact:

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

##### Ingestion:

May be harmful if swallowed.

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

#### Toxicological Data

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

##### Acute Toxicity

| Name                                | Route     | Species | Value                                                 |
|-------------------------------------|-----------|---------|-------------------------------------------------------|
| Overall product                     | Dermal    |         | No data available; calculated ATE >5,000 mg/kg        |
| Overall product                     | Ingestion |         | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| DICYANDIAMIDE                       | Dermal    | Rabbit  | LD50 > 10,000 mg/kg                                   |
| DICYANDIAMIDE                       | Ingestion | Rat     | LD50 > 30,000 mg/kg                                   |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | Dermal    | Rabbit  | LD50 > 2,500 mg/kg                                    |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | Ingestion | Rat     | LD50 1,480 mg/kg                                      |

ATE = acute toxicity estimate

##### Skin Corrosion/Irritation

| Name                                | Species           | Value              |
|-------------------------------------|-------------------|--------------------|
| DICYANDIAMIDE                       | Human and animal  | Minimal irritation |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | similar compounds | Mild irritant      |

**Serious Eye Damage/Irritation**

| Name                                | Species                | Value             |
|-------------------------------------|------------------------|-------------------|
| DICYANDIAMIDE                       | Professional judgement | Mild irritant     |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | similar compounds      | Moderate irritant |

**Skin Sensitization**

| Name          | Species    | Value                                                                        |
|---------------|------------|------------------------------------------------------------------------------|
| DICYANDIAMIDE | Guinea pig | Some positive data exist, but the data are not sufficient for classification |

**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                                                                        |
|-------------------------------------|----------|------------------------------------------------------------------------------|
| DICYANDIAMIDE                       | In Vitro | Not mutagenic                                                                |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | In vivo  | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                | Route     | Species | Value                                                                        |
|-------------------------------------|-----------|---------|------------------------------------------------------------------------------|
| DICYANDIAMIDE                       | Ingestion | Rat     | Not carcinogenic                                                             |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | 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 Duration              |
|-------------------------------------|-----------|--------------------------------------------------------------------------------------------|---------|-----------------------|--------------------------------|
| DICYANDIAMIDE                       | Ingestion | Not toxic to female reproduction                                                           | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| DICYANDIAMIDE                       | Ingestion | Not toxic to male reproduction                                                             | Rat     | NOAEL 1,000 mg/kg/day | 44 days                        |
| DICYANDIAMIDE                       | Ingestion | Not toxic to development                                                                   | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Mouse   | LOAEL 215 mg/kg/day   | during gestation               |

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

| Name                                | Route      | Target Organ(s)        | Value                                                                        | Species           | Test Result         | Exposure Duration |
|-------------------------------------|------------|------------------------|------------------------------------------------------------------------------|-------------------|---------------------|-------------------|
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar compounds | NOAEL Not available |                   |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | Ingestion  | methemoglobinemia      | Some positive data exist, but the data are not sufficient for                | Rat               | NOAEL Not available | not applicable    |

|  |  |  |                |  |  |  |
|--|--|--|----------------|--|--|--|
|  |  |  | classification |  |  |  |
|--|--|--|----------------|--|--|--|

**Specific Target Organ Toxicity - repeated exposure**

| Name                                | Route     | Target Organ(s)       | Value                                                                        | Species | Test Result           | Exposure Duration |
|-------------------------------------|-----------|-----------------------|------------------------------------------------------------------------------|---------|-----------------------|-------------------|
| DICYANDIAMIDE                       | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 6,822 mg/kg/day | 13 weeks          |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | Ingestion | liver                 | Some positive data exist, but the data are not sufficient for classification | Mouse   | LOAEL 800 mg/kg/day   | 103 weeks         |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 65 mg/kg/day    | 103 weeks         |
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | Ingestion | immune system         | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 520 mg/kg/day   | 13 weeks          |

**Aspiration Hazard**

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

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

**SECTION 12: Ecological information****Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations****13.1. Disposal methods**

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

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

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

**EPCRA 311/312 Hazard Classifications (effective January 1, 2018):****Physical Hazards**

Not applicable

**Health Hazards**

Not applicable

**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> |
|-------------------------------------|-------------------------|-----------------------|
| 3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA | 150-68-5                | Trade Secret 1 - 5    |

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

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:** 1    **Flammability:** 1    **Instability:** 1    **Special Hazards:** None

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

|                        |           |                         |          |
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