3M Scotch-Weld™ Repair Paste 2110 B/A

Safety Data Sheet

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Product identifier
3M™ Scotch-Weld™ Repair Paste 2110 B/A

ID Number(s):
70-2022-8149-2, 87-2500-0475-8
7000058953, 7100160078

Recommended use
Polyurethane Protective Tape Repair Paste

Supplier's details

MANUFACTURER: 3M
DIVISION: Automotive and Aerospace Solutions Division

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

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

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

31-1732-2, 31-1735-5

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Document Group: 31-1732-2  
Version Number: 5.00  
Issue Date: 01/21/21  
Supercedes Date: 10/22/18

SECTION 1: Identification

1.1. Product identifier
3M™ Scotch-Weld™ Repair Paste 2110 B/A Part B

1.2. Recommended use and restrictions on use

Recommended use
Part B of two component Polyurethane Protective Tape Repair Paste

1.3. Supplier’s details

MANUFACTURER: 3M  
DIVISION: Automotive and Aerospace Solutions Division  
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA  
Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Skin Sensitizer: Category 1A.

2.2. Label elements

Signal word
Warning

Symbols
Exclamation mark |

Pictograms

Hazard Statements
May cause an allergic skin reaction.
Precautionary Statements

Prevention:
Avoid breathing dust/fume/gas/mist/vapors/spray. 
Wear protective gloves. 
Contaminated work clothing must not be allowed out of the workplace.

Response:
IF ON SKIN: Wash with plenty of soap and water. 
If skin irritation or rash occurs: Get medical advice/attention. 
Wash contaminated clothing before reuse.

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

85% of the mixture consists of ingredients of unknown acute oral toxicity. 
85% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYURETHANE PREPOLYMER</td>
<td>Trade Secret*</td>
<td>55 - 85</td>
</tr>
<tr>
<td>POLY(TETRAMETHYLENE ETHER)</td>
<td>25190-06-1</td>
<td>5 - 25</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>110-63-4</td>
<td>&lt;= 5 Trade Secret *</td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate</td>
<td>41556-26-7</td>
<td>&lt; 5 Trade Secret *</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>&lt; 5 Trade Secret *</td>
</tr>
<tr>
<td>Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear</td>
<td>125304-04-3</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Zeolites</td>
<td>1318-02-1</td>
<td>&lt;= 5</td>
</tr>
<tr>
<td>METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE</td>
<td>82919-37-7</td>
<td>&lt; 1 Trade Secret *</td>
</tr>
</tbody>
</table>

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

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

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

4.2. Most important symptoms and effects, both acute and delayed
Allergic skin reaction (redness, swelling, blistering, and itching).

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

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

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Oxides of Nitrogen</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid 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.)

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. 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.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum, insoluble compounds</td>
<td>1318-02-1</td>
<td>ACGIH</td>
<td>TWA(respirable fraction):1 mg/m³</td>
<td>A4: Not class. as human carcin</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>ACGIH</td>
<td>TWA(inhalable fraction):3 mg/m³</td>
<td>A3: Confirmed animal carcin.</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>OSHA</td>
<td>TWA:3.5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
CMRG: Chemical Manufacturer's Recommended Guidelines
OSHA: United States Department of Labor - Occupational Safety and Health Administration
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
None required.

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

Gloves made from the following material(s) are recommended: Polymer laminate

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

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance
    Physical state: Liquid
    Color: Black

Specific Physical Form:
    Paste

Odor:
    Slight Odor, Mild Odor

Odor threshold:
    No Data Available

pH:
    Not Applicable

Melting Point:
    >=179 ºC

Boiling Point:
    >=354 ºF [Test Method: Closed Cup]

Flash Point:
    No Data Available

Evaporation rate:
    Not Applicable

Flammability (solid, gas):
    Not Applicable

Flammable Limits (LEL):
    No Data Available

Flammable Limits (UEL):
    No Data Available

Vapor Pressure:
    No Data Available

Vapor Density:
    Not Applicable

Density:
    1.05 g/ml

Specific Gravity:
    1.05 [Ref Std: WATER=1]

Solubility in Water:
    Negligible

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:
    60,000 - 90,000 centipoise [@ 71 ºF ] [Test Method: Tested per ASTM protocol] [Details: D 2556]

Hazardous Air Pollutants:
    0 g/l

Percent volatile:
    < 0.5 % weight

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
    Stable.

10.3. Possibility of hazardous reactions
    Hazardous polymerization will not occur.

10.4. Conditions to avoid
    Heat

10.5. Incompatible materials
    Strong oxidizing agents

10.6. Hazardous decomposition products
    Substance: 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.

**Skin Contact:**
Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

**Ingestion:**
May be harmful if swallowed.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

### Carcinogenicity:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Class Description</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Grp. 2B: Possible human carc.</td>
<td>International Agency for Research on Cancer</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Dermal</td>
<td>No data available; calculated ATE &gt;5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td>No data available; calculated ATE2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Zeolites</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Inhalation-Dust/Mist (4 hours)</td>
<td>Rat</td>
<td>LC50 &gt; 4.57 mg/l</td>
</tr>
<tr>
<td>Zeolites</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Dermal</td>
<td>Rat</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Inhalation-Dust/Mist (4 hours)</td>
<td>Rat</td>
<td>LC50 &gt; 5.1 mg/l</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 1,500 mg/kg</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 3,000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 8,000 mg/kg</td>
</tr>
<tr>
<td>Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-1, branched and linear</td>
<td>Dermal</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-1, branched and linear</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate</td>
<td>Dermal</td>
<td>LD50 estimated to be 2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 3,125 mg/kg</td>
</tr>
</tbody>
</table>
METHYL 1,2,2,6,6-PENTAMETHYL-4-Piperidinyl Sebacate
Dermal  LD50 estimated to be 2,000 - 5,000 mg/kg

METHYL 1,2,2,6,6-PENTAMETHYL-4-Piperidinyl Sebacate
Ingestion  Rat  LD50  3,125 mg/day

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zeolites</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>METHYL 1,2,2,6,6-PENTAMETHYL-4-Piperidinyl Sebacate</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
</tbody>
</table>

### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zeolites</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>METHYL 1,2,2,6,6-PENTAMETHYL-4-Piperidinyl Sebacate</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Human and animal</td>
<td>Not classified</td>
</tr>
<tr>
<td>Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear</td>
<td>Guinea pig</td>
<td>Not classified</td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>METHYL 1,2,2,6,6-PENTAMETHYL-4-Piperidinyl Sebacate</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>In vivo</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>METHYL 1,2,2,6,6-PENTAMETHYL-4-Piperidinyl Sebacate</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
</tbody>
</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>Dermal</td>
<td>Mouse</td>
<td>Not carcinogenic</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>Ingestion</td>
<td>Mouse</td>
<td>Not carcinogenic</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>Inhalation</td>
<td>Rat</td>
<td>Carcinogenic</td>
</tr>
</tbody>
</table>

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure</th>
</tr>
</thead>
</table>


Target Organ(s)

Specific Target Organ Toxicity - single exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Inhalation</td>
<td>central nervous system depression</td>
<td>May cause drowsiness or dizziness</td>
<td>Rat</td>
<td>LOAEL 4.6 mg/l</td>
<td>4 hours</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Multiple animal species</td>
<td>NOAEL Not available</td>
<td>not available</td>
<td></td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Ingestion</td>
<td>central nervous system depression</td>
<td>May cause drowsiness or dizziness</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>not available</td>
<td></td>
</tr>
</tbody>
</table>

Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Inhalation</td>
<td>heart</td>
<td>blood</td>
<td>liver</td>
<td>immune system</td>
<td>Not classified</td>
<td>Rat</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Inhalation</td>
<td>nervous system</td>
<td>kidney and/or bladder</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 0.5 mg/l</td>
<td>4 months</td>
</tr>
<tr>
<td>1,4-BUTANEDIOL</td>
<td>Ingestion</td>
<td>liver</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 500 mg/kg/day</td>
<td>28 days</td>
<td></td>
</tr>
<tr>
<td>Carbon Black</td>
<td>Inhalation</td>
<td>pneumoconiosis</td>
<td>Not classified</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>occupational exposure</td>
<td></td>
</tr>
</tbody>
</table>

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.
EPA Hazardous Waste Number (RCRA): Not regulated

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information**

15.1. US Federal Regulations
Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Not applicable

Health Hazards
Respiratory or Skin Sensitization

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: 1  Instability: 0  Special Hazards: None

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

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Issue Date: 01/21/21  Supercedes Date: 10/22/18

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Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Scotch-Weld™ Repair Paste 2110 B/A Part A

1.2. Recommended use and restrictions on use

Recommended use
Part A of two component Polyurethane Protective Tape Repair Paste, Industrial use

1.3. Supplier’s details

MANUFACTURER: 3M
DIVISION: Automotive and Aerospace Solutions Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Skin Corrosion/Irritation: Category 2.
Respiratory Sensitizer: Category 1.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Danger

Symbols
Health Hazard |

Pictograms
Hazard Statements
Causes skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Avoid breathing dust/fume/gas/mist/vapors/spray.
In case of inadequate ventilation wear respiratory protection.
Wear protective gloves.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response:
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms:   Call a POISON CENTER or doctor/physician.
IF ON SKIN:   Wash with plenty of soap and water.
If skin irritation or rash occurs:   Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

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

Supplemental Information:
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

90% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYURETHANE PREPOLYMER</td>
<td>Trade Secret*</td>
<td>70 - 90</td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>5124-30-1</td>
<td>10 - 15</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>28182-81-2</td>
<td>3 - 4</td>
</tr>
</tbody>
</table>

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Skin Contact:
Immediately wash with soap and water.  Remove contaminated clothing and wash before reuse.  If signs/symptoms develop, get medical attention.

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

If Swallowed:
Rinse mouth.  If you feel unwell, get medical attention.
4.2. Most important symptoms and effects, both acute and delayed

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isocyanates</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Hydrogen Cyanide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Oxides of Nitrogen</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

5.3. Special protective actions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. 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

Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid 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.)

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>5124-30-1</td>
<td>ACGIH</td>
<td>TWA:0.005 ppm</td>
<td>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</td>
</tr>
</tbody>
</table>

ACGIH : American Conference of Governmental Industrial Hygienists AIHA : American Industrial Hygiene Association CMRG : Chemical Manufacturer's Recommended Guidelines OSHA : United States Department of Labor - Occupational Safety and Health Administration TWA: Time-Weighted-Average STEL: Short Term Exposure Limit CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety Glasses with side shields

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

Respiratory protection

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical state</td>
<td>Transparent Colorless</td>
</tr>
<tr>
<td>Color</td>
<td>Paste</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight Odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No Data Available</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt;=186 ºC</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt;=367 ºF [Test Method: Closed Cup]</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits(LEL)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits(UEL)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Negligible</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Density</td>
<td>1.05 g/ml</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.05 [Ref Std: WATER=1]</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Negligible</td>
</tr>
<tr>
<td>Solubility- non-water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/ water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>190,000 - 270,000 centipoise [@ 71 ºF ] [Test Method: Tested per ASTM protocol] [Details: D 2556]</td>
</tr>
<tr>
<td>Volatile Organic Compounds</td>
<td>0 g/l [Test Method: calculated SCAQMD rule 443.1]</td>
</tr>
<tr>
<td>Percent volatile</td>
<td>0.0 % weight</td>
</tr>
<tr>
<td>VOC Less H2O &amp; Exempt Solvents</td>
<td>0 g/l [Test Method: calculated SCAQMD rule 443.1]</td>
</tr>
</tbody>
</table>

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 is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.
10.5. Incompatible materials
Amines
Alcohols
Water
Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.
Strong acids
Strong bases
Strong oxidizing agents

10.6. Hazardous decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

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

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

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

**Additional Information:**
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

**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**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
</table>


### Overall product

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Ingestion</td>
<td>No data available; calculated ATE &gt;5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Dermal</td>
<td>Rat</td>
<td>LD50 &gt; 7,000 mg/kg</td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Inhalation-Dust/Mist (4 hours)</td>
<td>Rat</td>
<td>LC50 0.33 mg/l</td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 18,200 mg/kg</td>
</tr>
</tbody>
</table>

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Rabbit</td>
<td>Irritant</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>Rabbit</td>
<td>Minimal irritation</td>
</tr>
</tbody>
</table>

#### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
</tbody>
</table>

#### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Human and animal</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>

#### Respiratory Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Professional judgement</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>similar compounds</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
<td>Rat</td>
<td>NOAEL 6</td>
<td>premating</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>In Vivo</td>
<td>Not mutagenic</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Carcinogenicity

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

#### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOYCANATE)</td>
<td>Inhalation</td>
<td>Not classified for female reproduction</td>
<td>Rat</td>
<td>NOAEL 6</td>
<td>premating</td>
</tr>
<tr>
<td>ISOCYANATE)</td>
<td>Name</td>
<td>Route</td>
<td>Target Organ(s)</td>
<td>Value</td>
<td>Species</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------</td>
<td>--------</td>
<td>-----------------</td>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>May cause respiratory irritation</td>
<td>Rat</td>
<td>NOAEL not available</td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>Inhalation</td>
<td>Not classified for male reproduction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>Inhalation</td>
<td>Not classified for development</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>Inhalation</td>
<td>Not classified during gestation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>Inhalation</td>
<td>Not classified</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>May cause respiratory irritation</td>
<td>Rat</td>
<td>NOAEL not available</td>
<td></td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>May cause respiratory irritation</td>
<td>NOAEL Not available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Specific Target Organ Toxicity - repeated exposure**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 3 mg/m3</td>
<td>90 days</td>
</tr>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>Inhalation</td>
<td>heart</td>
<td>skin</td>
<td>endocrine system</td>
<td>gastrointestinal tract</td>
<td>bone, teeth, nails, and/or hair</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE POLYMER</td>
<td>Inhalation</td>
<td>immune system</td>
<td>blood</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 0.084 mg/l</td>
</tr>
</tbody>
</table>

**Aspiration Hazard**

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

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

**SECTION 12: Ecological information**

**Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations**

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**EPA Hazardous Waste Number (RCRA):** Not regulated

### SECTION 14: Transport Information

For Transport Information, please visit [http://3M.com/Transportinfo](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:**

<table>
<thead>
<tr>
<th>Physical Hazards</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazards</td>
<td></td>
</tr>
<tr>
<td>Respiratory or Skin Sensitization</td>
<td></td>
</tr>
<tr>
<td>Skin Corrosion or Irritation</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No</th>
<th>% by Wt</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENEBIS(4-CYCLOHEXYL ISOCYANATE)</td>
<td>5124-30-1</td>
<td></td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

**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: 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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Issue Date: 07/06/21  Supercedes Date: 01/21/21

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