



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Scotch-Weld™ Structural Adhesive Film AF 30

Product Identification Numbers

| ID Number | UPC | ID Number | UPC |
|----------------|------------------|----------------|------------------|
| 62-1512-0150-6 | 00-21200-26065-0 | 62-1512-0151-4 | 00-21200-19983-7 |
| 62-1512-0205-8 | 00-21200-82180-6 | 62-1512-0451-8 | 00-21200-19984-4 |
| 62-1512-1001-0 | 00-21200-22597-0 | 62-1512-1201-6 | 00-21200-19987-5 |
| 62-1512-1705-6 | 00-21200-19989-9 | 62-1512-2005-0 | 00-21200-88058-2 |
| 62-1512-2405-2 | 00-21200-19993-6 | 62-1512-2801-2 | 00-21200-19995-0 |
| 62-1512-3155-2 | 00-21200-76205-5 | 62-1512-3501-7 | 00-21200-19997-4 |
| 62-1512-4105-6 | 00-21200-85062-2 | 62-1512-4107-2 | 00-21200-85146-9 |
| 62-1512-4201-3 | 00-21200-19999-8 | 62-1512-4356-5 | 00-21200-20002-1 |
| 62-1512-4705-3 | 00-21200-82186-8 | 62-1512-4706-1 | 00-21200-20004-5 |
| 62-1925-3001-2 | 00-21200-22609-0 | 62-1925-4700-8 | 00-21200-83591-9 |
| 62-1925-4701-6 | 00-21200-20189-9 | 62-1925-4755-2 | 00-21200-88010-0 |
| 62-2193-4205-2 | 00-21200-65272-1 | 62-2193-4705-1 | 00-21200-82426-5 |
| 62-2193-4706-9 | 00-21200-20304-6 | 87-2500-0289-3 | |
| 87-2500-0290-1 | | 87-3300-0511-4 | |
| 87-3300-0512-2 | | | |

7000046331, 7010367200, 7010309724, 7000000808, 7010367201, 7010330055, 7100100360, 7100067104, 7100067103

1.2. Recommended use and restrictions on use

Recommended use

Adhesive

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.

Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Causes skin irritation.

May cause an allergic skin reaction.

Causes damage to organs:

blood or blood-forming organs |

cardiovascular system |

nervous system |

kidney/urinary tract |

respiratory system |

Causes damage to organs through prolonged or repeated exposure:

blood or blood-forming organs |

cardiovascular system |

liver |

kidney/urinary tract |

respiratory system |

May cause damage to organs through prolonged or repeated exposure:

nervous system |

Precautionary Statements

Prevention:

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

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.

Take off contaminated clothing and wash it before reuse.

IF exposed: Call a POISON CENTER or doctor/physician.

Storage:

Store locked up.

Disposal:

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

Supplemental Information:

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

5% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|--|-------------------|------------------------|
| Acrylonitrile-Butadiene Polymer | 9003-18-3 | 30 - 60 |
| Phenol-Formaldehyde Polymer | 9003-35-4 | 30 - 60 Trade Secret * |
| Hexamine | 100-97-0 | < 10 Trade Secret * |
| Zinc Oxide | 1314-13-2 | < 5 |
| Phenol | 108-95-2 | < 2 Trade Secret * |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | 95-33-0 | < 1 Trade Secret * |

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

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation:**

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

Skin Contact:

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

Eye Contact:

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

If Swallowed:

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

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

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Formaldehyde
Carbon monoxide
Carbon dioxide
Ammonia
Oxides of Nitrogen
Oxides of Sulfur

Condition

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

5.3. Special protective actions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|------------|------------|--------|---|---|
| Hexamine | 100-97-0 | ACGIH | TWA(inhalable fraction and vapor):1 mg/m3 | A4: Not class. as human carcin, Dermal Sensitizer |

| | | | | |
|------------|-----------|-------|---|--|
| Phenol | 108-95-2 | ACGIH | TWA:5 ppm | A4: Not class. as human carcin, Danger of cutaneous absorption |
| Phenol | 108-95-2 | OSHA | TWA:19 mg/m3(5 ppm) | SKIN |
| Zinc Oxide | 1314-13-2 | ACGIH | TWA(respirable fraction):2 mg/m3;STEL(respirable fraction):10 mg/m3 | |
| Zinc Oxide | 1314-13-2 | OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3;TWA(as fume):5 mg/m3 | |

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

Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

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

Respiratory protection

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Solid

Color

Light Brown

Specific Physical Form:

Film

Odor

Odorless

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

No Data Available

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

Molecular weight

No Data Available

Volatile Organic Compounds

Not Applicable

Percent volatile

Negligible

VOC Less H2O & Exempt Solvents

Not Applicable

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

Amines

10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

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.

May cause additional health effects (see below).

Eye Contact:

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

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal.

Hematopoietic Effects: Signs/symptoms may include generalized weakness, fatigue and alterations in numbers of circulating blood cells.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Prolonged or repeated exposure may cause target organ effects:

Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart

muscle, heart attack, and may be fatal.

Hematopoietic Effects: Signs/symptoms may include generalized weakness, fatigue and alterations in numbers of circulating blood cells.

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Additional Information:

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

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|--|--------------------------------|---------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Acrylonitrile-Butadiene Polymer | Dermal | Rabbit | LD50 > 15,000 mg/kg |
| Acrylonitrile-Butadiene Polymer | Ingestion | Rat | LD50 > 30,000 mg/kg |
| Phenol-Formaldehyde Polymer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Phenol-Formaldehyde Polymer | Ingestion | Rat | LD50 > 2,900 mg/kg |
| Hexamine | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Hexamine | Ingestion | Rat | LD50 9,200 mg/kg |
| Zinc Oxide | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Zinc Oxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| Zinc Oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Phenol | Inhalation-Vapor | | LC50 estimated to be 2 - 10 mg/l |
| Phenol | Dermal | Rat | LD50 670 mg/kg |
| Phenol | Ingestion | Rat | LD50 340 mg/kg |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | Dermal | Rabbit | LD50 > 7,940 mg/kg |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | Ingestion | Rat | LD50 5,300 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---------------------------------|------------------------|---------------------------|
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Phenol-Formaldehyde Polymer | Human and animal | Mild irritant |
| Hexamine | Rabbit | No significant irritation |

| | | |
|--|------------------|---------------------------|
| Zinc Oxide | Human and animal | No significant irritation |
| Phenol | Rat | Corrosive |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Phenol-Formaldehyde Polymer | Human and animal | Moderate irritant |
| Hexamine | Rabbit | No significant irritation |
| Zinc Oxide | Rabbit | Mild irritant |
| Phenol | Rabbit | Corrosive |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|--|-------------------------|----------------|
| Phenol-Formaldehyde Polymer | Human and animal | Sensitizing |
| Hexamine | Multiple animal species | Sensitizing |
| Zinc Oxide | Guinea pig | Not classified |
| Phenol | Guinea pig | Not classified |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | Human | Sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|-----------------------------|---------|----------------|
| Phenol-Formaldehyde Polymer | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| 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 |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | In vivo | Not mutagenic |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--|-----------|---------|--|
| 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 |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | Ingestion | Mouse | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|--|-----------|--|-------------------------|---------------------|------------------------------|
| Zinc Oxide | Ingestion | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day | premating & during gestation |
| Phenol | Ingestion | Not classified for female reproduction | Rat | NOAEL 321 mg/kg/day | 2 generation |
| Phenol | Ingestion | Not classified for male reproduction | Rat | NOAEL 321 mg/kg/day | 2 generation |
| Phenol | Ingestion | Not classified for development | Rat | NOAEL 120 mg/kg/day | during organogenesis |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULFENAMIDE | Ingestion | Not classified for development | Rat | NOAEL 300 mg/kg/day | during organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------------|------------|--|--|-------------------------|---------------------|------------------------|
| Phenol-Formaldehyde Polymer | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |
| Phenol | Dermal | hematopoietic system | Causes damage to organs | Rat | LOAEL 108 mg/kg | not available |
| Phenol | Dermal | heart nervous system kidney and/or bladder | Causes damage to organs | Rat | LOAEL 107 mg/kg | 24 hours |
| Phenol | Dermal | liver | Not classified | Human | NOAEL Not available | not available |
| Phenol | Inhalation | respiratory irritation | May cause respiratory irritation | Multiple animal species | NOAEL Not available | not available |
| Phenol | Ingestion | kidney and/or bladder | Causes damage to organs | Rat | NOAEL 120 mg/kg/day | not applicable |
| Phenol | Ingestion | respiratory system | Causes damage to organs | Human | NOAEL not available | poisoning and/or abuse |
| Phenol | Ingestion | endocrine system liver | Not classified | Rat | NOAEL 224 mg/kg | not applicable |
| Phenol | Ingestion | heart | Not classified | Human | NOAEL Not available | poisoning and/or abuse |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------------|------------|---|--|------------|---------------------|-----------------------|
| Phenol-Formaldehyde Polymer | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Zinc Oxide | Ingestion | nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 10 days |
| Zinc Oxide | Ingestion | endocrine system hematopoietic system kidney and/or bladder | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |
| Phenol | Dermal | nervous system | May cause damage to organs though prolonged or repeated exposure | Rabbit | LOAEL 260 mg/kg/day | 18 days |
| Phenol | Inhalation | heart liver kidney and/or bladder respiratory system | Causes damage to organs through prolonged or repeated exposure | Guinea pig | LOAEL 0.1 mg/l | 41 days |
| Phenol | Inhalation | nervous system | May cause damage to organs | Multiple | LOAEL 0.1 | 14 days |

| | | | though prolonged or repeated exposure | animal species | mg/l | |
|---|------------|--|--|-------------------------|-----------------------|-----------------------|
| Phenol | Inhalation | hematopoietic system | Not classified | Human | NOAEL Not available | occupational exposure |
| Phenol | Inhalation | immune system | Not classified | Rat | NOAEL 0.1 mg/l | 2 weeks |
| Phenol | Ingestion | kidney and/or bladder | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 12 mg/kg/day | 14 days |
| Phenol | Ingestion | hematopoietic system | Causes damage to organs through prolonged or repeated exposure | Mouse | LOAEL 1.8 mg/kg/day | 28 days |
| Phenol | Ingestion | nervous system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 308 mg/kg/day | 13 weeks |
| Phenol | Ingestion | liver | Not classified | Rat | NOAEL 40 mg/kg/day | 14 days |
| Phenol | Ingestion | respiratory system | Not classified | Rat | LOAEL 40 mg/kg/day | 14 days |
| Phenol | Ingestion | immune system | Not classified | Mouse | NOAEL 1.8 mg/kg/day | 28 days |
| Phenol | Ingestion | endocrine system | Not classified | Rat | NOAEL 120 mg/kg/day | 14 days |
| Phenol | Ingestion | skin bone, teeth, nails, and/or hair | Not classified | Multiple animal species | NOAEL 1,204 mg/kg/day | 103 weeks |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULF ENAMIDE | Dermal | skin hematopoietic system | Not classified | Rabbit | NOAEL 2,000 mg/kg/day | 21 days |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULF ENAMIDE | Inhalation | hematopoietic system immune system respiratory system eyes kidney and/or bladder | Not classified | Rat | NOAEL 0.048 mg/l | 29 days |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULF ENAMIDE | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 800 mg/kg/day | 28 days |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULF ENAMIDE | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 80 mg/kg/day | 28 days |
| N-CYCLOHEXYL-2-BENZOTHAZOLESULF ENAMIDE | Ingestion | heart endocrine system gastrointestinal tract immune system nervous system | Not classified | Rat | NOAEL 800 mg/kg/day | 28 days |

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of 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.

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

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

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

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u> |
|-----------------------------|-------------------------|-----------------------|
| Zinc Oxide (ZINC COMPOUNDS) | 1314-13-2 | < 5 |
| Phenol | 108-95-2 | Trade Secret < 2 |

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification**Health:** 2 **Flammability:** 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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