



Safety Data Sheet

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| Document Group: | 45-6281-5 | Version Number: | 1.01 |
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SECTION 1: Identification

1.1. Product identifier

Fastbond 1049 PSA Clear Cylinder

Product Identification Numbers

62-1049-8030-5
7100303522

1.2. Recommended use and restrictions on use

Recommended use

Adhesive

1.3. Supplier's details

| | |
|----------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Industrial Adhesives and Tapes Division |
| ADDRESS: | 3M Center, St. Paul, MN 55144-1000, USA |
| Telephone: | 1-888-3M HELPS (1-888-364-3577) |

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

2.1. Hazard classification

Chemicals Under Pressure: Category 3
Skin Sensitizer: Category 1A.

2.2. Label elements

Signal word

Warning

Symbols

Gas cylinder | Exclamation mark |

Pictograms

**Hazard Statements**

Chemical under pressure: May explode if heated.

May cause an allergic skin reaction.

Precautionary Statements**Prevention:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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.

Stop leak if safe to do so.

Storage:

Protect from sunlight. Store in a well-ventilated place.

Disposal:

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

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|--------------|----------------------|
| Polymer | 2230857-46-0 | 40 - 60 |
| Water | 7732-18-5 | 40 - 60 |
| Rosin Acid Esters | 65997-11-7 | 1 - 5 Trade Secret * |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | <= 0.0015 |
| 2-Methyl-4-isothiazoline-3-one | 2682-20-4 | <= 0.0005 |

*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:

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|--------------------------|-------------------|
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Irritant Vapors or Gases | 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

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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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 detergent and water. 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.

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store in a well-ventilated place. Store away from heat.

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

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 particulates

Half facepiece or full facepiece supplied-air respirator

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

White

Odor

Moderate Acrylate

Odor threshold*No Data Available***pH**

8

Melting point*Not Applicable***Boiling Point**

100 °C

Flash Point

No flash point

Evaporation rate*No Data Available***Flammability (solid, gas)**

Not Applicable

Flammable Limits(LEL)*No Data Available***Flammable Limits(UEL)***No Data Available***Vapor Pressure***No Data Available***Vapor Density***No Data Available***Density**

1 g/ml

Specific Gravity

1 [Ref Std:WATER=1]

Solubility in Water

Moderate

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***No Data Available***Hazardous Air Pollutants**

4.75 % weight

Molecular weight*No Data Available***Volatile Organic Compounds**

<=1 % [Test Method:calculated SCAQMD rule 443.1]

Percent volatile

Approximately 100 % weight

VOC Less H2O & Exempt Solvents

<=1 % [Test Method:calculated SCAQMD rule 443.1]

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

Not determined

10.6. Hazardous decomposition productsSubstanceCondition

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:

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

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|---|--------------------------------|------------------------|--|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Polymer | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Polymer | Ingestion | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Rosin Acid Esters | Dermal | Rat | LD50 > 2,000 mg/kg |
| Rosin Acid Esters | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Dermal | Rabbit | LD50 87 mg/kg |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.171 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Rat | LD50 40 mg/kg |
| 2-Methyl-4-isothiazoline-3-one | Dermal | Rabbit | LD50 87 mg/kg |
| 2-Methyl-4-isothiazoline-3-one | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.171 mg/l |
| 2-Methyl-4-isothiazoline-3-one | Ingestion | Rat | LD50 40 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

| | | |
|---|------------------------|---------------------------|
| Polymer | Professional judgement | No significant irritation |
| Rosin Acid Esters | Rabbit | No significant irritation |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Rabbit | Corrosive |
| 2-Methyl-4-isothiazoline-3-one | Rabbit | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|------------------------|---------------------------|
| Polymer | Professional judgement | No significant irritation |
| Rosin Acid Esters | Rabbit | Moderate irritant |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Rabbit | Corrosive |
| 2-Methyl-4-isothiazoline-3-one | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|---|------------------------|----------------|
| Polymer | Professional judgement | Not classified |
| Rosin Acid Esters | Mouse | Sensitizing |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Human and animal | Sensitizing |
| 2-Methyl-4-isothiazoline-3-one | Human and animal | Sensitizing |

Photosensitization

| Name | Species | Value |
|---|------------------|-----------------|
| 5-chloro-2-methyl-4-isothiazoline-3-one | Human and animal | Not sensitizing |
| 2-Methyl-4-isothiazoline-3-one | Human and animal | Not sensitizing |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| Rosin Acid Esters | In Vitro | Not mutagenic |
| 5-chloro-2-methyl-4-isothiazoline-3-one | In vivo | Not mutagenic |
| 5-chloro-2-methyl-4-isothiazoline-3-one | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2-Methyl-4-isothiazoline-3-one | In vivo | Not mutagenic |
| 2-Methyl-4-isothiazoline-3-one | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|---|-----------|---------|------------------|
| 5-chloro-2-methyl-4-isothiazoline-3-one | Dermal | Mouse | Not carcinogenic |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Rat | Not carcinogenic |
| 2-Methyl-4-isothiazoline-3-one | Dermal | Mouse | Not carcinogenic |

| | | | |
|--------------------------------|-----------|-----|------------------|
| 2-Methyl-4-isothiazoline-3-one | Ingestion | Rat | Not carcinogenic |
|--------------------------------|-----------|-----|------------------|

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|-----------|--|---------|-----------------------|----------------------------|
| Rosin Acid Esters | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Rosin Acid Esters | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 42 days |
| Rosin Acid Esters | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Not classified for female reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Not classified for male reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Not classified for development | Rat | NOAEL 15 mg/kg/day | during organogenesis |
| 2-Methyl-4-isothiazoline-3-one | Ingestion | Not classified for female reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| 2-Methyl-4-isothiazoline-3-one | Ingestion | Not classified for male reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| 2-Methyl-4-isothiazoline-3-one | Ingestion | Not classified for development | Rat | NOAEL 15 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 |
|---|------------|------------------------|--|------------------------|---------------------|-------------------|
| Rosin Acid Esters | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |
| 2-Methyl-4-isothiazoline-3-one | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-------------------|-----------|---|----------------|---------|-----------------------|-------------------|
| Rosin Acid Esters | Ingestion | heart gastrointestinal tract hematopoietic system liver nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 1,090 mg/kg/day | 90 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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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

This material contains a chemical which requires export notification under TSCA Section 12[b]:

| <u>Ingredient (Category if applicable)</u> | <u>C.A.S. No</u> | <u>Regulation</u> | <u>Status</u> |
|--|------------------|--|---------------|
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Proposed |
| 2-Methyl-4-isothiazoline-3-one | 2682-20-4 | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Proposed |

This material contains a chemical subject to a proposed EPA Significant New Use Rule (TSCA Section 5)

| <u>Ingredient (Category if applicable)</u> | <u>C.A.S. No</u> | <u>Reference</u> |
|--|------------------|------------------|
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | 62 FR 34421 |
| 2-Methyl-4-isothiazoline-3-one | 2682-20-4 | 62 FR 34421 |

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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