



Safety Data Sheet

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This product is defined as an article as per the Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200(b)(6)(v)). As defined in this Standard:

'Article' means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and which does not pose a physical hazard or health risk to employees.

When used under reasonable conditions and in accordance with the directions for use, the product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

| | | | |
|------------------------|------------|-------------------------|----------------|
| Document group: | 16-6314-5 | Version number: | 1.00 |
| Issue Date: | 12/03/2024 | Supersedes date: | Initial issue. |

This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier

Scotch® Super 33+™ Vinyl Electrical Tape and Scotch® Premium Vinyl Electrical Tape Super 88

Product Identification Numbers

IA-3101-0620-7

1.2. Recommended use and restrictions on use

Recommended use

Electrical

1.3. Supplier's details

Address: 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone: 080-45543000, contact Product EHS team
E Mail: productehs.in@mmm.com
Website: <http://solutions.3mindia.co.in>

1.4. Emergency telephone number

080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this

product are included as well.

2.1. Classification of the substance or mixture

This product is considered to be an article and is exempt from GHS classification.

2.2. Label elements

Signal Word

Not applicable.

Symbols

Not applicable

Pictograms

Not applicable

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | CAS Nbr | % by Wt |
|--|-----------|-------------|
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Mixed | 100 |
| Natural rubber. | 9006-04-6 | 0.13 - 0.17 |

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

Skin contact

If exposed, wash with soap and water. 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

Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide.
 Carbon dioxide.
 Hydrogen Chloride
 Irritant vapours or gases.
 Oxides of antimony.
 Oxides of zinc.

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

Not applicable.

6.2. Environmental precautions

Not applicable.

6.3. Methods and material for containment and cleaning up

Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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 | CAS Nbr | Agency | Limit type | Additional comments |
|--|----------------|---------------|---|--------------------------------|
| Natural rubber. | 9006-04-6 | ACGIH | TWA(as allergenic protein, inhalable fraction):0.0001 mg/m3 | Dermal/Respiratory Sensitizer |
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Mixed | ACGIH | TWA(respirable fraction):1 mg/m3 | A4: Not class. as human carcin |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

Skin/hand protection

PPE No chemical protective gloves are required.

Respiratory protection

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-----------------------------------|
| Physical state | Solid. |
| Specific Physical Form: | Roll of Tape. |
| Color | Black |
| Odor | Slight Odor |
| Odour threshold | <i>Not applicable.</i> |
| pH | <i>Not applicable.</i> |
| Melting point/Freezing point: NA | <i>No data available.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i> |
| Flash point | <i>Not applicable.</i> |
| Evaporation rate | <i>Not applicable.</i> |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Vapour pressure | <i>Not applicable.</i> |
| Vapor Density and/or Relative Vapor Density | <i>Not applicable.</i> |
| Density | 1.22 g/cm ³ |
| Relative density | 1.22 [Details:Ref Std: Water = 1] |
| Water solubility | Nil |
| Solubility- non-water | <i>Not applicable.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>Not applicable.</i> |
| Viscosity/Kinematic Viscosity | <i>Not applicable.</i> |
| Volatile organic compounds (VOC) | <i>No data available.</i> |
| Percent volatile | <i>Not applicable.</i> |
| VOC less H₂O & exempt solvents | <i>No data available.</i> |
| Average particle size | <i>No data available.</i> |
| Bulk density | <i>No data available.</i> |
| Molecular weight | <i>No data available.</i> |
| Softening point | <i>No data available.</i> |

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|---------------------------|
| Hydrocarbons. | At elevated temperatures. |

Refer to section 5.2 for hazardous decomposition products during combustion.

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

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 labelling, 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

No health effects are expected.

Skin contact

No health effects are expected.

Eye contact

No health effects are expected.

Ingestion

No health effects are expected.

Additional information:

This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a

health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards

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 |
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Natural rubber. | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Natural rubber. | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Professional judgement | No significant irritation |
| Natural rubber. | Human | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------|---------|---------------------------|
| Natural rubber. | Rabbit | No significant irritation |

Sensitization:

Skin Sensitisation

| Name | Species | Value |
|-----------------|---------|-------------|
| Natural rubber. | Human | Sensitising |

Respiratory Sensitisation

| Name | Species | Value |
|-----------------|---------|-------------|
| Natural rubber. | Human | Sensitising |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | In Vitro | Not mutagenic |
| Natural rubber. | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--|----------------|---------|--|
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Not specified. | Rat | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure |
|------|-------|-------|---------|-------------|----------|
|------|-------|-------|---------|-------------|----------|

| | | | | | |
|--|----------------|--------------------------------|-------|---------------------|-------------------------------------|
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Not specified. | Not classified for development | Mouse | NOAEL Not available | Duration during gestation |
|--|----------------|--------------------------------|-------|---------------------|-------------------------------------|

Target Organ(s)

Specific Target Organ Toxicity - single exposure

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

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|--------------------|----------------|-------------------------|------------------|-------------------|
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 0.013 mg/l | 22 months |

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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material | CAS Nbr | Organism | Type | Exposure | Test endpoint | Test result |
|--|-----------|----------|---|----------|---------------|-------------|
| Natural rubber. | 9006-04-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Mixed | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|-----------------|-----------|---------------------------------|----------|------------|-------------|----------|
| Natural rubber. | 9006-04-6 | Data not available-insufficient | N/A | N/A | N/A | N/A |

| | | | | | | |
|--|-------|---------------------------------|-----|-----|-----|-----|
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Mixed | Data not available-insufficient | N/A | N/A | N/A | N/A |
|--|-------|---------------------------------|-----|-----|-----|-----|

12.3 : Bioaccumulative potential

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|-----------|---|----------|------------|-------------|----------|
| Natural rubber. | 9006-04-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Poly(Vinyl Chloride) Tape with Rubber-Based Adhesive | Mixed | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other Adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials.

SECTION 14: Transport Information

Not hazardous for transportation.

Air Transport (IATA) Regulations

UN No Not applicable

Proper Shipping Name Not applicable

Hazard Class/Division Not applicable

Subsidiary Risk Not applicable

Packing Group: Not applicable

Marine Transport (IMDG)

UN No Not applicable

Proper Shipping Name Not applicable

Hazard Class/Division Not applicable

Subsidiary Risk Not applicable

Packing Group: Not applicable

Environmental Hazards: Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules

None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:

The product is non-hazardous as per MSIHC regulations.

SECTION 16: Other information

NFPA Hazard Classification

Health: 0 **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.

Revision information:

No revision information

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