



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier

Solvent-free Lead-free Steam Indicator Tape 1322

Product Identification Numbers

CT-0609-3464-4 CT-0609-3465-1 CT-0609-3466-9

1.2. Recommended use and restrictions on use

Recommended use

Indicator Tape

For Industrial or Professional use only

1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone: (09) 477 4040
E Mail: innovation@nz.mmm.com
Website: 3m.co.nz

1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Not classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020. 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.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

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.

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | % by Weight |
|-----------------------|----------------|--------------------|
| Saturated Crepe Paper | 9004-34-6 | 40 - 50 |
| Adhesive | Trade Secret | 10 - 20 |
| Acrylic Polymer | Trade Secret | 2 - 5 |
| Steam Indicator Ink | Trade Secret | 0.5 - 2 |

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.

Condition

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.

5.4. Hazchem code: Not applicable.

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

Refer to Section 15 - Controls for more information

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

Not applicable.

7.3. Certified handler

Not required

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 |
|-----------------------|----------------|--------------------|---|-------------------------------------|
| Saturated Crepe Paper | 9004-34-6 | ACGIH | TWA:10 mg/m ³ | |
| Saturated Crepe Paper | 9004-34-6 | New Zealand WES | TWA(as fiber)(8 hours):10 mg/m ³ | |
| Steam Indicator Ink | Trade Secret | ACGIH | TWA(Respirable nanoscale particles):0.2 mg/m ³ ;TWA(Respirable finescale particles):2.5 mg/m ³ | A3: Confirmed animal carcinogen. |
| Steam Indicator Ink | Trade Secret | New Zealand WES | TWA(8 hours):10 mg/m ³ | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

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

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. |
| Colour | Tan |
| Odour | Nearly Odourless |
| Odour threshold | <i>Not applicable.</i> |
| pH | <i>Not applicable.</i> |
| Melting point/Freezing point | <i>Not applicable.</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>Not applicable.</i> |
| Flammable Limits(UEL) | <i>Not applicable.</i> |
| Vapour pressure | <i>Not applicable.</i> |
| Vapor Density and/or Relative Vapor Density | <i>Not applicable.</i> |
| Density | <i>Not applicable.</i> |
| Relative density | <i>Not applicable.</i> |
| Water solubility | Nil |
| Solubility- non-water | <i>Not applicable.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>Not applicable.</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 H ₂ O & exempt solvents | <i>No data available.</i> |
| Molecular weight | <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

None known.

10.6 Hazardous decomposition products

Substance

Condition

None known.

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 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 |

| | | | |
|-----------------------|--------------------------------|---------------|---------------------|
| Saturated Crepe Paper | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Saturated Crepe Paper | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.8 mg/l |
| Saturated Crepe Paper | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Adhesive | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Adhesive | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Acrylic Polymer | Dermal | Not available | LD50 > 2,000 mg/kg |
| Acrylic Polymer | Ingestion | Not available | LD50 > 2,000 mg/kg |
| Steam Indicator Ink | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Steam Indicator Ink | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Steam Indicator Ink | Ingestion | Rat | LD50 > 10,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------|------------------------|---------------------------|
| Saturated Crepe Paper | Not available | No significant irritation |
| Adhesive | Human | Minimal irritation |
| Acrylic Polymer | Professional judgement | No significant irritation |
| Steam Indicator Ink | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------|------------------------|---------------------------|
| Saturated Crepe Paper | Not available | No significant irritation |
| Adhesive | Human | Mild irritant |
| Acrylic Polymer | Professional judgement | No significant irritation |
| Steam Indicator Ink | Rabbit | No significant irritation |

Sensitisation:

Skin Sensitisation

| Name | Species | Value |
|---------------------|------------------|----------------|
| Acrylic Polymer | | Not classified |
| Steam Indicator Ink | Human and animal | Not classified |

Photosensitisation

| Name | Species | Value |
|----------|---------|-----------------|
| Adhesive | Human | Not sensitizing |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---------------------|----------|--|
| Adhesive | In vivo | Not mutagenic |
| Adhesive | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Steam Indicator Ink | In Vitro | Not mutagenic |
| Steam Indicator Ink | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---------------------|----------------|-------------------------|--|
| Adhesive | Not specified. | Human and animal | Some positive data exist, but the data are not sufficient for classification |
| Steam Indicator Ink | Ingestion | Multiple animal species | Not carcinogenic |
| Steam Indicator Ink | Inhalation | Rat | Carcinogenic. |

Reproductive Toxicity**Reproductive and/or Developmental Effects**

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

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 |
|---------------------|------------|--------------------|--|---------|---------------------|-----------------------|
| Adhesive | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Steam Indicator Ink | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Steam Indicator Ink | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |

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

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|----------|------------|----------|------|----------|---------------|-------------|
|----------|------------|----------|------|----------|---------------|-------------|

| | | | | | | |
|-----------------------|--------------|------------------|---|----------|--------------------------------|--------------|
| Saturated Crepe Paper | 9004-34-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Adhesive | Trade Secret | Green algae | Endpoint not reached | 72 hours | EL50 | >100 mg/l |
| Adhesive | Trade Secret | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Acrylic Polymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Steam Indicator Ink | Trade Secret | Activated sludge | Experimental | 3 hours | NOEC | >=1,000 mg/l |
| Steam Indicator Ink | Trade Secret | Diatom | Experimental | 72 hours | EC50 | >10,000 mg/l |
| Steam Indicator Ink | Trade Secret | Fathead minnow | Experimental | 96 hours | LC50 | >100 mg/l |
| Steam Indicator Ink | Trade Secret | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Steam Indicator Ink | Trade Secret | Diatom | Experimental | 72 hours | NOEC | 5,600 mg/l |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|-----------------------|--------------|--------------------------------|----------|---------------|------------------------------------|-----------------------------------|
| Saturated Crepe Paper | 9004-34-6 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Adhesive | Trade Secret | Estimated Biodegradation | 28 days | CO2 evolution | 18 %CO2 evolution/THC O2 evolution | OECD 301B - Modified sturm or CO2 |
| Acrylic Polymer | Trade Secret | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Steam Indicator Ink | Trade Secret | Data not availbl- insufficient | N/A | N/A | N/A | N/A |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|-----------------------|--------------|---|----------|------------|-------------|----------|
| Saturated Crepe Paper | 9004-34-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Adhesive | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Acrylic Polymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

| | | | | | | |
|---------------------|--------------|-------------------------|---------|------------------------|-----|--|
| Steam Indicator Ink | Trade Secret | Experimental BCF - Fish | 42 days | Bioaccumulation factor | 9.6 | |
|---------------------|--------------|-------------------------|---------|------------------------|-----|--|

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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

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 and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Hazchem Code: Not applicable.

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

HSNO Approval number Not applicable

Group standard name Not applicable
 HSNO Hazard classification Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

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

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

| | |
|---------------------------------|--------------|
| Certified handler | Not required |
| Location Compliance Certificate | Not required |
| Hazardous atmosphere zone | Not required |
| Fire extinguishers | Not required |
| Emergency response plan | Not required |
| Secondary containment | Not required |
| Tracking | Not required |
| Warning signage | Not required |

SECTION 16: Other information

Revision information:

Complete document review.

| | | | |
|------------------------|------------|-------------------------|------------|
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Key to abbreviations and acronyms

GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017

HSNO means Hazardous Substances and New Organisms Act 1996

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