



Safety Data Sheet

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|---------------------------------------|-------------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M Scotch-Weld 2000 Contact Adhesive, Blue (Part B)

Product Identification Numbers

UU-0014-7343-6 UU-0036-4624-5

7100028967 7100083354

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Water Dispersed Contact Adhesive.

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
E Mail: tox.uk@mmm.com
Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Skin Sensitization, Category 1B - Skin Sens. 1B; H317

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

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SIGNAL WORD

WARNING.

Symbols:

GHS07 (Exclamation mark) |

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|------------|-----------|-----------|-----------|
| rosin | 8050-09-7 | 232-475-7 | 0.1 - 1.5 |

HAZARD STATEMENTS:

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H412 | Harmful to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

P280E Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

33% of the mixture consists of components of unknown acute oral toxicity.

Contains 40% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | EC No. | REACH Registration No. | % by Wt | Classification |
|--|------------|-----------|------------------------|---------|---------------------------------------|
| Non-Hazardous Ingredients | Mixture | | | 30 - 60 | Substance not classified as hazardous |
| 2,3-Dichloro-1,3-butadiene-chloroprene Copolymer | 25067-95-2 | | | 15 - 40 | Substance not classified as hazardous |
| Rosin, oligomeric reaction products | 68083-03-4 | 500-192-0 | | 3 - 7 | Substance not classified as |

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| | | | | | |
|---|------------|-----------|------------------|-------------|--|
| with phenol | | | | | hazardous |
| Resin acids and rosin acids, esters with glycerol | 8050-31-5 | 232-482-5 | | 0 - 7 | Substance not classified as hazardous |
| Resin acids and Rosin acids, potassium salts | 61790-50-9 | 263-142-4 | | 1 - 5 | Eye Irrit. 2, H319 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | 927-510-4 | | 1 - 5 | Aquatic Chronic 2, H411 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336 |
| ethanol | 64-17-5 | 200-578-6 | 01-2119457610-43 | 1 - 5 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 |
| zinc oxide | 1314-13-2 | 215-222-5 | 01-2119463881-32 | 0.5 - 1.5 | Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 |
| rosin | 8050-09-7 | 232-475-7 | 01-2119480418-32 | 0.1 - 1.5 | Skin Sens. 1B, H317 |
| potassium hydroxide | 1310-58-3 | 215-181-3 | 01-2119487136-33 | 0.005 - 0.5 | Acute Tox. 3, H301; Skin Corr. 1A, H314 Met. Corr. 1, H290 |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | 119-47-1 | 204-327-1 | 01-2119496065-33 | < 0.5 | Repr. 2, H361f |

Note: Any entry in the EC# column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.
Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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

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. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|---------------------|--------------------|
| Hydrocarbons. | During combustion. |
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Ammonia | During combustion. |
| Oxides of nitrogen. | During combustion. |

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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 dykes 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 using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapours/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 oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

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7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Store away from heat. Store away from acids. Store away from oxidising agents.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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 |
|---------------------|-----------|--------|---|------------------------|
| potassium hydroxide | 1310-58-3 | UK HSC | STEL:2 mg/m ³ | |
| ethanol | 64-17-5 | UK HSC | TWA:1920 mg/m ³ (1000 ppm) | |
| rosin | 8050-09-7 | UK HSC | TWA(as fume):0.05 mg/m ³ ;STEL(as fume):0.15 mg/m ³ | Respiratory Sensitizer |

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from UK HSC

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/vapours/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:

Full face shield.

Indirect vented goggles.

Applicable Norms/Standards

Use eye/face protection conforming to EN 166

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

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clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended:

| Material | Thickness (mm) | Breakthrough Time |
|------------------|-------------------|-------------------|
| Polymer laminate | No data available | No data available |

Applicable Norms/Standards
Use gloves tested to EN 374

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 vapours and particulates

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

Applicable Norms/Standards
Use a respirator conforming to EN 140 or EN 136: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state
Colour

Liquid.
Blue

Specific Physical Form:

Odor

Blue milky liquid.
Slight Ammoniacal

Odour threshold

No data available.

pH

10 - 11

Boiling point/boiling range

≥ 100 °C

Melting point

Not applicable.

Flammability (solid, gas)

Not applicable.

Explosive properties

Not classified

Oxidising properties

Not classified

Flash point

68.3 °C [*Test Method*:Closed Cup]

Autoignition temperature

No data available.

Flammable Limits(LEL)

No data available.

Flammable Limits(UEL)

No data available.

Vapour pressure

No data available.

Relative density

1.06 - 1.12 [*Ref Std*:WATER=1]

Water solubility

No data available.

Solubility- non-water

No data available.

Partition coefficient: n-octanol/water

No data available.

Evaporation rate

No data available.

Vapour density

No data available.

Decomposition temperature

No data available.

Viscosity

100 - 750 mPa-s [*@ 25 °C*]

Density

No data available.

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9.2. Other information

EU Volatile Organic Compounds
Percent volatile

No data available.
48 - 52 %

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 polymerisation will not occur.

10.4 Conditions to avoid

Heat.
Sparks and/or flames.

10.5 Incompatible materials

Strong acids.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

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

Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. 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.

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Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

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-Vapour(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Resin acids and rosin acids, esters with glycerol | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Resin acids and rosin acids, esters with glycerol | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Rosin, oligomeric reaction products with phenol | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Rosin, oligomeric reaction products with phenol | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| ethanol | Dermal | Rabbit | LD50 > 15,800 mg/kg |
| ethanol | Inhalation-Vapour (4 hours) | Rat | LC50 124.7 mg/l |
| ethanol | Ingestion | Rat | LD50 17,800 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal | Rabbit | LD50 > 2,920 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal | Rat | LD50 > 2,000 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation-Vapour (4 hours) | Rat | LC50 > 23.3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation-Vapour (4 hours) | Rat | LC50 > 5.61 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | Rat | LD50 > 5,840 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Resin acids and Rosin acids, potassium salts | Dermal | Rat | LD50 > 2,000 mg/kg |
| Resin acids and Rosin acids, potassium salts | Ingestion | Rat | LD50 > 2,000 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 |
| rosin | Dermal | Rabbit | LD50 > 2,500 mg/kg |
| rosin | Ingestion | Rat | LD50 7,600 mg/kg |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | Ingestion | Rat | LD50 > 5,000 mg/kg |
| potassium hydroxide | Dermal | Rabbit | LD50 > 1,260 mg/kg |
| potassium hydroxide | Ingestion | Rat | LD50 273 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

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| Name | Species | Value |
|---|------------------|---------------------------|
| Resin acids and rosin acids, esters with glycerol | Rabbit | Minimal irritation |
| ethanol | Rabbit | No significant irritation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Irritant |
| Resin acids and Rosin acids, potassium salts | Rabbit | No significant irritation |
| zinc oxide | Human and animal | No significant irritation |
| rosin | Rabbit | No significant irritation |
| potassium hydroxide | Rabbit | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| Resin acids and rosin acids, esters with glycerol | Rabbit | Mild irritant |
| ethanol | Rabbit | Severe irritant |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | No significant irritation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Mild irritant |
| Resin acids and Rosin acids, potassium salts | Rabbit | Moderate irritant |
| zinc oxide | Rabbit | Mild irritant |
| rosin | Rabbit | Mild irritant |
| potassium hydroxide | Rabbit | Corrosive |

Skin Sensitisation

| Name | Species | Value |
|---|------------|----------------|
| Resin acids and rosin acids, esters with glycerol | Guinea pig | Not classified |
| ethanol | Human | Not classified |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Guinea pig | Not classified |
| Resin acids and Rosin acids, potassium salts | Mouse | Not classified |
| zinc oxide | Guinea pig | Not classified |
| rosin | Guinea pig | Sensitising |

Respiratory Sensitisation

| Name | Species | Value |
|-------|---------|----------------|
| rosin | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| Resin acids and rosin acids, esters with glycerol | In Vitro | Not mutagenic |
| ethanol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ethanol | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | In Vitro | Not mutagenic |
| 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 |

Carcinogenicity

| Name | Route | Species | Value |
|---------|-----------|-------------------------|--|
| ethanol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

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Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|----------------|--|-------------------------|-----------------------|--------------------------------|
| ethanol | Inhalation | Not classified for development | Rat | NOAEL 38 mg/l | during gestation |
| ethanol | Ingestion | Not classified for development | Rat | NOAEL 5,200 mg/kg/day | prematuring & during gestation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for female reproduction | Rat | NOAEL Not available | 2 generation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for male reproduction | Rat | NOAEL Not available | 2 generation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for development | Rat | NOAEL Not available | 2 generation |
| zinc oxide | Ingestion | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day | prematuring & during gestation |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | Ingestion | Not classified for female reproduction | Rat | NOAEL 50 mg/kg/day | prematuring & during gestation |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | Ingestion | Toxic to male reproduction | Rat | NOAEL 12.5 mg/kg/day | 50 days |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| ethanol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | LOAEL 2.6 mg/l | 30 minutes |
| ethanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | LOAEL 9.4 mg/l | not available |
| ethanol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL not available | |
| ethanol | Ingestion | kidney and/or bladder | Not classified | Dog | NOAEL 3,000 mg/kg | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| Resin acids and Rosin acids, potassium salts | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| potassium hydroxide | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|-----------|---|----------------|---------|-----------------------|-------------------|
| Resin acids and rosin acids, esters with glycerol | Ingestion | liver heart skin endocrine system bone, teeth, nails, and/or hair blood bone marrow | Not classified | Rat | NOAEL 5,000 mg/kg/day | 90 days |

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| | | | | | | |
|------------|------------|---|--|--------|-----------------------|----------|
| | | hematopoietic system immune system muscles nervous system eyes kidney and/or bladder respiratory system | | | | |
| ethanol | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Rabbit | LOAEL 124 mg/l | 365 days |
| ethanol | Inhalation | hematopoietic system immune system | Not classified | Rat | NOAEL 25 mg/l | 14 days |
| ethanol | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 8,000 mg/kg/day | 4 months |
| ethanol | Ingestion | kidney and/or bladder | Not classified | Dog | NOAEL 3,000 mg/kg/day | 7 days |
| 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 |

Aspiration Hazard

| Name | Value |
|--|-------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Aspiration hazard |

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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|---|------------|----------------|---|----------|---------------------|-------------|
| 2,3-Dichloro-1,3-butadiene-chloroprene Copolymer | 25067-95-2 | | Data not available or insufficient for classification | | | |
| Resin acids and rosin acids, esters with glycerol | 8050-31-5 | Fathead minnow | Estimated | 96 hours | Lethal Level 50% | >100 mg/l |
| Resin acids and rosin acids, esters with glycerol | 8050-31-5 | Green Algae | Estimated | 72 hours | Effect Level 50% | >100 mg/l |
| Resin acids and rosin acids, esters with glycerol | 8050-31-5 | Water flea | Estimated | 48 hours | Effect Level 50% | >100 mg/l |
| Resin acids and rosin acids, esters with glycerol | 8050-31-5 | Green Algae | Estimated | 72 hours | No obs Effect Level | >100 mg/l |
| Rosin, oligomeric reaction products with phenol | 68083-03-4 | | Data not available or insufficient for classification | | | |

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| | | | | | | |
|--|------------|-------------------------------|---|----------|--------------------------------|------------|
| ethanol | 64-17-5 | Rainbow trout | Experimental | 96 hours | LC50 | 42 mg/l |
| ethanol | 64-17-5 | Water flea | Experimental | 48 hours | LC50 | 5,012 mg/l |
| ethanol | 64-17-5 | Algae other | Experimental | 96 hours | NOEC | 1,580 mg/l |
| ethanol | 64-17-5 | Water flea | Experimental | 10 days | NOEC | 9.6 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Green Algae | Estimated | 72 hours | Effect Level 50% | 29 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 48 hours | Effect Level 50% | 3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Rainbow trout | Experimental | 96 hours | Lethal Level 50% | >13.4 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | | Data not available or insufficient for classification | | | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Green Algae | Estimated | 72 hours | No obs Effect Level | 6.3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 21 days | No obs Effect Level | 1 mg/l |
| Resin acids and Rosin acids, potassium salts | 61790-50-9 | Fathead minnow | Estimated | 96 hours | LC50 | 1.7 mg/l |
| Resin acids and Rosin acids, potassium salts | 61790-50-9 | Green Algae | Estimated | 72 hours | EC50 | 39.6 mg/l |
| Resin acids and Rosin acids, potassium salts | 61790-50-9 | Water flea | Estimated | 48 hours | EC50 | 1.6 mg/l |
| rosin | 8050-09-7 | Green Algae | Experimental | 72 hours | Effect Level 50% | >100 mg/l |
| rosin | 8050-09-7 | Water flea | Experimental | 48 hours | Effect Level 50% | 911 mg/l |
| rosin | 8050-09-7 | Zebra Fish | Experimental | 96 hours | Lethal Level 50% | >1 mg/l |
| rosin | 8050-09-7 | Green Algae | Experimental | 72 hours | No obs Effect Level | >100 mg/l |
| zinc oxide | 1314-13-2 | Rainbow trout | Estimated | 96 hours | LC50 | 0.21 mg/l |
| zinc oxide | 1314-13-2 | Crustacea other | Experimental | 24 hours | LC50 | 0.24 mg/l |
| zinc oxide | 1314-13-2 | Green Algae | Experimental | 72 hours | EC50 | 0.057 mg/l |
| zinc oxide | 1314-13-2 | Algae or other aquatic plants | Estimated | 96 hours | Effect Concentration 10% | 0.026 mg/l |
| zinc oxide | 1314-13-2 | Crustacea other | Estimated | 24 days | NOEC | 0.007 mg/l |
| zinc oxide | 1314-13-2 | Rainbow trout | Estimated | 30 days | NOEC | 0.049 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | 119-47-1 | Green Algae | Endpoint not reached | 72 hours | EC50 | >100 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | 119-47-1 | Water flea | Endpoint not reached | 48 hours | EC50 | >100 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | 119-47-1 | Ricefish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | 119-47-1 | Green Algae | Experimental | 72 hours | NOEC | 1.3 mg/l |
| potassium hydroxide | 1310-58-3 | | Data not available or insufficient for classification | | | |

12.2. Persistence and degradability

3M Scotch-Weld 2000 Contact Adhesive, Blue (Part B)

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|-------------------------------|----------|---------------|----------------|-------------------------------------|
| 2,3-Dichloro-1,3-butadiene-chloroprene Copolymer | 25067-95-2 | Data not availbl-insufficient | | | N/A | |
| Resin acids and rosin acids, esters with glycerol | 8050-31-5 | Experimental Biodegradation | 28 days | CO2 evolution | 0 % weight | OECD 301B - Modified sturm or CO2 |
| Rosin, oligomeric reaction products with phenol | 68083-03-4 | Estimated Biodegradation | 28 days | BOD | 25.5 % weight | OECD 301C - MITI test (I) |
| ethanol | 64-17-5 | Experimental Biodegradation | 14 days | BOD | 89 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Estimated Biodegradation | 28 days | BOD | 98 %BOD/CO D | OECD 301F - Manometric respirometry |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Data not availbl-insufficient | | | N/A | |
| Resin acids and Rosin acids, potassium salts | 61790-50-9 | Estimated Biodegradation | 28 days | CO2 evolution | 80 % weight | OECD 301B - Modified sturm or CO2 |
| rosin | 8050-09-7 | Experimental Biodegradation | 28 days | CO2 evolution | 64 % weight | OECD 301B - Modified sturm or CO2 |
| zinc oxide | 1314-13-2 | Data not availbl-insufficient | | | N/A | |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | 119-47-1 | Experimental Biodegradation | 28 days | BOD | 0 % BOD/ThBOD | OECD 301C - MITI test (I) |
| potassium hydroxide | 1310-58-3 | Data not availbl-insufficient | | | N/A | |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|---|----------|------------------------|-------------|--|
| 2,3-Dichloro-1,3-butadiene-chloroprene Copolymer | 25067-95-2 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Resin acids and rosin acids, esters with glycerol | 8050-31-5 | Experimental Bioconcentration | | Log Kow | <1.5 | Other methods |
| Rosin, oligomeric reaction products with phenol | 68083-03-4 | Estimated Bioconcentration | | Bioaccumulation factor | 1900 | Estimated: Bioconcentration factor |
| ethanol | 64-17-5 | Experimental Bioconcentration | | Log Kow | -0.35 | Other methods |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Resin acids and Rosin acids, potassium salts | 61790-50-9 | Estimated BCF - Rainbow Tr | 20 days | Bioaccumulation factor | ≤129 | Other methods |
| rosin | 8050-09-7 | Estimated BCF - Rainbow Tr | 20 days | Bioaccumulation factor | 129 | Other methods |
| zinc oxide | 1314-13-2 | Experimental BCF-Carp | 56 days | Bioaccumulation factor | ≤217 | OECD 305E - Bioaccumulation flow-through fish test |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | 119-47-1 | Experimental BCF-Carp | 60 days | Bioaccumulation factor | 840 | OECD 305E - Bioaccumulation flow-through fish test |
| potassium hydroxide | 1310-58-3 | 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. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Other adverse effects

3M Scotch-Weld 2000 Contact Adhesive, Blue (Part B)

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

| | |
|-----------|--|
| 08 04 09* | Waste adhesives and sealants containing organic solvents or other dangerous substances |
| 20 01 27* | Paint, inks, adhesives and resins containing dangerous substances |

SECTION 14: Transportation information

UU-0014-7343-6, UU-0036-4624-5

Not hazardous for transportation

SECTION 15: Regulatory information

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

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

3M Scotch-Weld 2000 Contact Adhesive, Blue (Part B)

| | |
|-------|---|
| H361f | Suspected of damaging fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

Section 1: Product identification numbers information was added.
Section 01: SAP Material Numbers information was added.
CLP: Ingredient table information was modified.
Section 3: Composition/ Information of ingredients table information was modified.
Section 5: Hazardous combustion products table information was modified.
Section 6: Accidental release clean-up information information was modified.
Section 8: Occupational exposure limit table information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Respiratory Sensitization Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12: Bioaccumulative potential information information was modified.
Section 16: UK disclaimer information was deleted.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M United Kingdom MSDSs are available at www.3M.com/uk