

Safety Data Sheet

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 Document group:
 22-7529-5
 Version number:
 8.02

 Revision date:
 09/05/2011
 Supersedes date:
 04/05/2011

Transportation version number: 1.01 (07/09/2010)

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 RT300B Cyanoacrylate Adhesive

Product identification numbers

GS-2000-4463-3 GS-2000-4525-9 GS-2000-4566-3 GS-2000-4707-3 GS-2000-4806-3

GS-2000-5048-1 GS-2000-5049-9 GS-2000-5050-7

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

Identified uses

Structural strength instant adhesive.

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

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

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive Indication of danger

Harmful. Sensitising

2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbols

Xn Harmful.

Contains:

1,2,3,6-Tetrahydrophthalic anhydride

Risk phrases

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitisation by inhalation and skin contact.

Safety phrases

S2 Keep out of the reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

S23A Do not breathe vapour.

S24/25 Avoid contact with the skin and eyes.

S46 If swallowed, seek medical advice immediately and show this container or label.

Special provisions concerning the labelling of certain substances

CYANOACRYLATE, DANGER: Bonds skin and eyes in seconds.

If eyelids are bonded, do not force open. In case of skin bonding, quickly soak in warm water and avoid excessive force to free bonded area.

2.3. Other hazards

May bond tissue rapidly. None known.

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | EU Inventory | % by Wt | Classification |
|--------------------------------------|-----------|----------------------|-----------|--|
| Ethyl 2-cyanoacrylate | 7085-85-0 | EINECS 230- 391-5 | 85 - 95 | Xi:R36-37-38 (EU) |
| | | | | Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 (CLP) |
| Poly(methyl methacrylate) | 9011-14-7 | | 5 - 15 | |
| 1,2,3,6-Tetrahydrophthalic anhydride | 85-43-8 | EINECS 201- 605-4 | 0.5 - 1.5 | Xi:R41; R42-43; R52/53 - Nota C (EU) |
| | | | | Eye Dam. 1, H318; Resp. Sens. 1, H334; Skin Sens. 1, H317; Aquatic Chronic 3, H412 - Nota C (CLP) |
| Hydroquinone | 123-31-9 | EINECS 204- 617-8 | < 0.1 | Carc.Cat.3:R40; Muta.Cat.3:R68; Xn:R22; Xi:R41; N:R50; R43 (EU) |
| | | | | Acute Tox. 4, H302; Eye Dam. 1, H318; Skin Sens. 1, H317; Muta. 2, H341; Carc. 2, H351; Aquatic Acute 1, H400,M=10 (CLP) |

Please see section 16 for the full text of any R phrases and H statements referred to in this section

Please refer to section 15 for the any applicable Notas that have been applied to the above components

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

Eve contact

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention. DO NOT force eyelids open.

Skin contact

For skin bonds: Quickly soak in warm water and avoid use of excessive force to free bonded area. If unable to free bonded area, or if lips or mouth are bonded, get medical attention. If irritation persists, get medical attention.

Inhalation

Remove person to fresh air. If you feel unwell, 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 or gases such as dry chemical or carbon dioxide.

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

Substance Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

Condition

During combustion. During combustion. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Evacuate area. 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.

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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

Collect as much of the spilled material as possible using non-sparking tools. Collect as much of the spilled material as possible. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Seal the container.

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

Avoid eye contact. 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. Avoid release to the environment. Avoid breathing of vapours created during the cure cycle. Avoid breathing of dust created by cutting, sanding, grinding or machining. Vapours may travel long distances along the ground or floor to an ignition source and flash back. For industrial or professional use only. Do not use in a confined area or areas with little or no air movement. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. 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

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|-----------------------|-----------|--------------|---------------------------------------|---------------------|
| Hydroquinone | 123-31-9 | Health and | TWA: 0.5 mg/m ³ | |
| | | Safety Comm. | _ | |
| | | (UK) | | |
| Ethyl 2-cyanoacrylate | 7085-85-0 | Health and | STEL: 1.5 mg/m ³ (0.3 ppm) | |
| | | Safety Comm. | | |
| | | (UK) | | |

Health and Safety Comm. (UK): UK Health and Safety Commission

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

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission

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control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear protective gloves and eye/face protection. Wear eye/face protection. The following eye protection(s) are recommended: Safety glasses with side shields. Indirect vented goggles.

Skin/hand protection

Gloves made from the following material(s) are recommended: Fluoroelastomer Polyethylene.

Respiratory protection

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P2 particulate prefilters. Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P2 particulate prefilters. Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P3 particulate prefilters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.

Black liquid, with a sharp, pungent odour. Appearance/Odour

Not applicable. pН >=150 °C Boiling point/boiling range *Not applicable.* **Melting point**

Flammability (solid, gas) Flammable Liquid: Category 4.

Not classified **Explosive properties** Not classified **Oxidising properties**

Flash point >=85 °C [Test Method:Closed Cup]

Flammable Limits(LEL) No data available. Flammable Limits(UEL) No data available. <=5.3 Pa [@ 20 °C] Vapour pressure 1.1 [*Ref Std*:WATER=1] Relative density

Water solubility

Partition coefficient: n-octanol/water No data available. Negligible **Evaporation rate** No data available. Vapour density

Viscosity 0.3 - 1 Pa-s [@ 23 °C]

Density 1.1 g/ml

9.2. Other information

<=0.1 % weight Hazardous air pollutants No data available. Volatile organic compounds (VOC) **VOC less H2O & exempt solvents** No data available.

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 may occur. May occur in large quantities only.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Strong oxidising agents.

Water

Strong bases.

Amines.

Alcohols.

Material polymerises rapidly by contact with water, alcohol, amines, and alkalis.

10.6 Hazardous decomposition products

Substance
None known.

Condition

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:

Eve contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Bonds eyelids rapidly.

Skin contact

Moderate skin irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Bonds skin rapidly.

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system:

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

Ingestion

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

Toxicological Data

Acute Toxicity

| Name | Route | Species | Value | UN GHS Classification |
|--------------------------------------|-----------|---------|--|-----------------------------|
| Overall product | Ingestion | | No test data available; calculated ATE >5000 mg/kg | Not classified (0% unknown) |
| Ethyl 2-cyanoacrylate | | | No data available | |
| Poly(methyl methacrylate) | | | No data available | |
| 1,2,3,6-Tetrahydrophthalic anhydride | | | No data available | |
| Hydroquinone | | | No data available | |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value | UN GHS Classification |
|--------------------------------------|---------|--|-----------------------|
| Overall product | | No test data available; calculated to be mild irritant | Category 3 |
| Ethyl 2-cyanoacrylate | | Mild irritant | Category 3 |
| Poly(methyl methacrylate) | | No data available | |
| 1,2,3,6-Tetrahydrophthalic anhydride | | No data available | |
| Hydroquinone | | No data available | |

Serious Eye Damage/Irritation

| Name | Species | Value | UN GHS Classification |
|--------------------------------------|---------|--|-----------------------|
| Overall product | | No test data available; calculated to be severe irritant | Category 2A |
| Ethyl 2-cyanoacrylate | | Severe irritant | Category 2A |
| Poly(methyl methacrylate) | | No data available | |
| 1,2,3,6-Tetrahydrophthalic anhydride | | No data available | |
| Hydroquinone | | No data available | |

Skin Sensitisation

| Name | Species | Value | UN GHS Classification |
|--------------------------------------|---------|-------------------------|--|
| Overall product | | No test data available. | Not classified based on component data |
| Ethyl 2-cyanoacrylate | | No data available | P same |
| Poly(methyl methacrylate) | | No data available | |
| 1,2,3,6-Tetrahydrophthalic anhydride | | Sensitising | Category 1 |
| Hydroquinone | | No data available | |

Respiratory Sensitisation

| Name | Species | Value | UN GHS Classification |
|-----------------------|---------|-------------------------|-------------------------|
| Overall product | | No test data available. | Not classified based on |
| | | | component data |
| Ethyl 2-cyanoacrylate | | No data available | |

| Poly(methyl methacrylate) | No | data available | |
|--------------------------------------|-----|----------------|------------|
| 1,2,3,6-Tetrahydrophthalic anhydride | Ser | nsitising | Category 1 |
| Hydroquinone | No | data available | |

Germ Cell Mutagenicity

| Name | Route | Value | UN GHS Classification |
|--------------------------------------|-------|-------------------------|------------------------------|
| Overall product | | No data available | Overall Germ Cell |
| | | | Mutagenicity |
| | | | classificationNot classified |
| Overall product | | No test data available. | |
| Ethyl 2-cyanoacrylate | | No data available | |
| Poly(methyl methacrylate) | | No data available | |
| 1,2,3,6-Tetrahydrophthalic anhydride | | No data available | |
| Hydroquinone | | No data available | |

Carcinogenicity

| Name | Route | Species | Value | UN GHS |
|----------------------------|-------|---------|-------------------------|----------------------|
| | | | | Classification |
| Overall product | | | No test data available. | Not classified based |
| | | | | on component data |
| Ethyl 2-cyanoacrylate | | | No data available | |
| Poly(methyl methacrylate) | | | No data available | |
| 1,2,3,6-Tetrahydrophthalic | | | No data available | |
| anhydride | | | | |
| Hydroquinone | | | No data available | |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test | Exposure | UN GHS |
|--------------------|-------|-------------------|---------|--------|----------|----------------|
| | | | | result | Duration | Classification |
| Overall product | | No test data | | | | Not classified |
| | | available. | | | | based on |
| | | | | | | component data |
| Ethyl 2- | | No data available | | | | |
| cyanoacrylate | | | | | | |
| Poly(methyl | | No data available | | | | |
| methacrylate) | | | | | | |
| 1,2,3,6- | | No data available | | | | |
| Tetrahydrophthalic | | | | | | |
| anhydride | | | | | | |
| Hydroquinone | | No data available | | | | |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target | Value | Species | Test | Exposure | UN GHS |
|--------------|------------|------------|-----------------|---------|--------|----------|----------------|
| | | Organ(s) | | | result | Duration | Classification |
| Ethyl 2- | Inhalation | respirator | Some positive | | | | Not classified |
| cyanoacrylat | | у | data exist, but | | | | |
| e | | irritation | the data are | | | | |
| | | | not sufficient | | | | |
| | | | for | | | | |
| | | | classification | | | | |
| Poly(methyl | | | No data | | | | |

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| methacrylate | available | | |
|---|----------------------|--|--|
| 1,2,3,6- Tetrahydrop hthalic anhydride | No data available | | |
| Hydroquino ne | No data available | | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration | UN GHS Classification |
|---|-------|--------------------|-------------------------|---------|----------------|-------------------|--|
| Overall product | | | No test data available. | | | | Not classified based on component data |
| Ethyl 2- cyanoacrylat e | | | No data available | | | | |
| Poly(methyl methacrylate) | | | No data available | | | | |
| 1,2,3,6- Tetrahydrop hthalic anhydride | | | No data available | | | | |
| Hydroquino ne | | | No data available | | | | |

Aspiration Hazard

| Name | Value | UN GHS Classification |
|--------------------------------------|--------------------------|---|
| Overall product | No test data available. | Not classified based on component and/or viscosity data |
| Ethyl 2-cyanoacrylate | Not an aspiration hazard | Not classified |
| Poly(methyl methacrylate) | Not an aspiration hazard | Not classified |
| 1,2,3,6-Tetrahydrophthalic anhydride | Not an aspiration hazard | Not classified |
| Hydroquinone | Not an aspiration hazard | Not classified |

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:

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available. No component test data available.

12.2. Persistence and degradability

No test data available.

12.3: Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects

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

As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

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

GS-2000-4463-3, GS-2000-4525-9, GS-2000-4566-3, GS-2000-4707-3, GS-2000-4806-3, GS-2000-5048-1, GS-2000-5049-9, GS-2000-5050-7

ADR/RID: NOT RESTRICTED FOR ROAD (ADR/RID), (--).

IMDG-CODE: not regulated, LIMITED QUANTITY.

ICAO/IATA: UN3334, AVIATION REGULATED LIQUID, N.O.S., (CYANOCRYLATE ESTER), 9...

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u> <u>CAS Nbr</u> <u>Classification</u> <u>Regulation</u>

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| Hydroquinone | 123-31-9 | Carc.Cat.3 | Regulation (EC) No 1272/2008, Table 3.2 |
|---------------------------|-----------|-------------------------|---|
| Poly(methyl methacrylate) | 9011-14-7 | Gr. 3: Not classifiable | International Agency |
| Hydroquinone | 123-31-9 | Carc. 2 | for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |
| Hydroquinone | 123-31-9 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

Global inventory status

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

| H302 | Harmful if swallowed. |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H341 | Suspected of causing genetic defects. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic life. |
| H412 | Harmful to aquatic life with long lasting effects. |

List of relevant R-phrases

| R22 | Harmful if swallowed. |
|---------|---|
| R36 | Irritating to eyes. |
| R37 | Irritating to respiratory system. |
| R38 | Irritating to skin. |
| R40 | Limited evidence of a carcinogenic effect. |
| R41 | Risk of serious damage to eyes. |
| R42 | May cause sensitisation by inhalation. |
| R43 | May cause sensitisation by skin contact. |
| R50 | Very toxic to aquatic organisms. |
| R 52/53 | Harmful to aquatic organisms. May cause lon |

R52/53 Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

R68 Possible risks of irreversible effects.

Revision information:

Revision Changes:

Section 1: 3M Product identification numbers was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on 3M's experience and is correct to the best of 3M's knowledge at the date of publication. 3M does not accept 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.

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| M Scotch-Weld RT300B Cyanoacrylate Adhesive | | | | |
|--|--|--|--|--|
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| | | | | |
| 3M United Kingdom MSDSs are available at www.3M.com/uk | | | | |
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