



Safety Data Sheet

Copyright, 2011, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group: 22-8121-0 **Version number:** 6.06
Revision date: 06/07/2011 **Supersedes date:** 06/07/2011
Transportation version number: 2.04 (06/07/2011)

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 SF100 Cyanoacrylate Adhesive

Product identification numbers

GS-2000-4382-5	GS-2000-4383-3	GS-2000-4384-1	GS-2000-4439-3	GS-2000-4440-1
GS-2000-4441-9	GS-2000-4479-9	GS-2000-4611-7	GS-2000-4612-5	GS-2000-4685-1
GS-2000-4686-9	GS-2000-4726-3	GS-2000-4975-6	GS-2000-4976-4	GS-2000-4977-2
GS-2000-4978-0	GS-2000-4979-8	GS-2000-5022-6	GS-2000-5124-0	GS-2000-5154-7
GS-2000-5367-5	GS-2000-5409-5	GS-2000-5478-0	GS-2000-5483-0	GS-2000-5713-0

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

Irritant.

2.2. Label elements

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

3M Scotch-Weld SF100 Cyanoacrylate Adhesive

Symbols

Xi Irritant.

Contains:

No ingredients are assigned to the label.

Risk phrases

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

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.
S24/25 Avoid contact with the skin and eyes.

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.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Ethyl 2-cyanoacrylate	7085-85-0	EINECS 230-391-5	90 - 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 - 10	
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

Eye contact

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

3M Scotch-Weld SF100 Cyanoacrylate Adhesive

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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide.	During combustion.
Carbon dioxide.	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.

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.

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

3M Scotch-Weld SF100 Cyanoacrylate Adhesive

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. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

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 Safety Comm. (UK)	TWA: 0.5 mg/m ³	
Ethyl 2-cyanoacrylate	7085-85-0	Health and Safety Comm. (UK)	STEL: 1.5 mg/m ³ (0.3 ppm)	

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 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 P3 particulate prefilters.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid.
Appearance/Odour	Clear liquid, with a sharp, pungent odour.
pH	<i>No data available.</i>
Boiling point/boiling range	≥ 100 °C
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Flammable Liquid: Category 4.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	≥ 85 °C [<i>Test Method: Closed Cup</i>]
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	≤ 26.7 Pa [<i>@ 23.9 °C</i>]
Relative density	1.06 [<i>Ref Std: WATER=1</i>]
Water solubility	Nil
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	Negligible
Vapour density	≥ 3.0 [<i>Ref Std: AIR=1</i>]
Viscosity	0.08 - 0.12 Pa-s [<i>@ 23 °C</i>]
Density	1.06 g/ml

9.2. Other information

Hazardous air pollutants	≤ 0.1 % weight
Volatile organic compounds (VOC)	<i>No data available.</i>
VOC less H₂O & exempt solvents	<i>No data available.</i>

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

3M Scotch-Weld SF100 Cyanoacrylate Adhesive

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 polymerizes rapidly by contact with water, alcohol, amines and alkalis.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
------------------	------------------

None known.	
-------------	--

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:

Eye 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

Mild Skin Irritation: Signs/symptoms may include localized 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:

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;	Not classified

3M Scotch-Weld SF100 Cyanoacrylate Adhesive

			calculated ATE >5000 mg/kg	(0% unknown)
Ethyl 2-cyanoacrylate			No data available	
Poly(methyl methacrylate)			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	
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	
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	
Poly(methyl methacrylate)		No data available	
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	
Hydroquinone		No data available	

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Overall product		No data available	Overall Germ Cell Mutagenicity classification Not classified
Overall product		No test data available.	
Ethyl 2-cyanoacrylate		No data available	
Poly(methyl methacrylate)		No data available	
Hydroquinone		No data available	

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
------	-------	---------	-------	-----------------------

3M Scotch-Weld SF100 Cyanoacrylate Adhesive

Overall product			No test data available.	Not classified based on component data
Ethyl 2-cyanoacrylate			No data available	
Poly(methyl methacrylate)			No data available	
Hydroquinone			No data available	

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

Name	Route	Value	Species	Test result	Exposure Duration	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				
Hydroquinone		No data available				

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Ethyl 2-cyanoacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification				Not classified
Poly(methyl methacrylate)			No data available				
Hydroquinone			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-cyanoacrylate			No data available				
Poly(methyl methacrylate)			No data available				
Hydroquinone			No data available				

Aspiration Hazard

Name	Value	UN GHS Classification
------	-------	-----------------------

3M Scotch-Weld SF100 Cyanoacrylate Adhesive

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
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

Reclaim if feasible. 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

3M Scotch-Weld SF100 Cyanoacrylate Adhesive

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-2000-4441-9, GS-2000-4479-9, GS-2000-4611-7, GS-2000-4612-5,
GS-2000-4685-1, GS-2000-4686-9, GS-2000-4726-3, GS-2000-4975-6,
GS-2000-4976-4, GS-2000-4977-2, GS-2000-4978-0, GS-2000-4979-8,
GS-2000-5022-6, GS-2000-5124-0, GS-2000-5367-5

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..

GS-2000-5154-7

Not hazardous for transportation

GS-2000-5409-5, GS-2000-5478-0, GS-2000-5483-0, GS-2000-5713-0

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

Global inventory status

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.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

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.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R68	Possible risks of irreversible effects.

Revision information:

Revision Changes:

Section 15: Carcinogenicity information was modified.

Section 16: UK disclaimer was modified.

Section 1: Product identification numbers was modified.

Section 11: Health Effects - Skin information was modified.

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.

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