

# **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

# **SECTION 1: Identification**

### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Super Fast Instant Adhesive SF100, Clear

### **Product Identification Numbers**

62-6174-0361-3	62-6174-0363-9	62-6174-0367-0	62-6174-0369-6	62-6174-3860-1
UU-0015-0298-6	UU-0015-0300-0	UU-0015-0325-7	UU-0015-0327-3	UU-0015-0344-8
UU-0015-0347-1	UU-0015-0350-5	UU-0015-0401-6	UU-0015-0402-4	UU-0015-0403-2
UU-0015-0405-7	UU-0015-4294-1			

### 1.2. Recommended use and restrictions on use

### Recommended use

Adhesive

For Industrial or Professional use only

## 1.3. Supplier's details

ADDRESS: 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301

Petaling, Jaya, Selangor

**Telephone:** 03-7884 2888

E Mail: 3mmyehsr@mmm.com Website: www.3M.com.my

## 1.4. Emergency telephone number

+60 03-7884 2888

# **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 2. Skin Corrosion/Irritation: Category 2.

Specific Target Organ Toxicity (single exposure): Category 3.

## 2.2. Label elements

Signal word

Warning

# **Symbols**

Exclamation mark |

### **Pictograms**



### **Hazard Statements**

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation.

## **Precautionary statements**

General:

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

**Prevention:** 

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280B Wear protective gloves and eye/face protection.

P264 Wash thoroughly after handling.

**Response:** 

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P321 Specific treatment (see Notes to Physician on this label).

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

## 2.3. Other hazards

May bond tissue rapidly. Avoid eye and skin contact. 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. Contact through clothing may cause thermal burns.

# **SECTION 3: Composition/information on ingredients**

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Ethyl Cyanoacrylate	7085-85-0	93 - 97
Non-Hazardous Resin	Trade Secret	< 5
Hydroquinone	123-31-9	<= 0.06

# **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:**

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.

# **Eye Contact:**

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

#### 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. Suitable 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**

SubstanceConditionCarbon monoxideDuring CombustionCarbon dioxideDuring CombustionHydrogen CyanideDuring CombustionOxides of NitrogenDuring Combustion

# 5.3. Special protective actions 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 vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors 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 dikes 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 closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapors/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 contact with oxidizing agents (eg. chlorine, chromic acid etc.)

# 7.2. Conditions for safe storage including any incompatibilities

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 heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

# **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	C.A.S. No.	Agency	Limit type	Additional Comments
Hydroquinone	123-31-9	ACGIH	TWA:1 mg/m3	A3: Confirmed animal carcin., Dermal Sensitizer
Hydroquinone	123-31-9	Malaysia OELs	TWA(8 hours):2 mg/m3	
Ethyl Cyanoacrylate	7085-85-0	ACGIH	TWA:0.2 ppm;STEL:1 ppm	Dermal/Respiratory Sensitizer
Ethyl Cyanoacrylate	7085-85-0	Malaysia OELs	TWA(8 hours):0.2 ppm	

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer's Recommended Guidelines

Malaysia OELs: Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

# 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/vapors/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:

**Indirect Vented Goggles** 

## 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 clothing. Do not wear cotton gloves. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Nitrile Rubber 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 vapors

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

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state	Liquid		
Color	Colorless		
Odor	Sharp Odor, Pungent Odor		
Odor threshold	No Data Available		
pH	Not Applicable		
Melting point/Freezing point	Not Applicable		
Boiling point/Initial boiling point/Boiling range	150 °C		
Flash Point	85 °C [Test Method:Closed Cup]		
Evaporation rate	No Data Available		
Flammability (solid, gas)	Not Applicable		
Flammable Limits(LEL)	No Data Available		
Flammable Limits(UEL)	No Data Available		
Vapor Pressure	39.1 Pa [@ 23.9 °C ]		
Vapor Density and/or Relative Vapor Density	No Data Available		
Density	1.06 g/ml		
Relative Density	1.06 [Ref Std:WATER=1]		
Water solubility	Nil		
Solubility- non-water	No Data Available		
Partition coefficient: n-octanol/ water	No Data Available		
Autoignition temperature	No Data Available		
Decomposition temperature	No Data Available		
Viscosity/Kinematic Viscosity	70 - 90 mPa-s [@ 23 °C ]		
Volatile Organic Compounds	<=0.6 %		
Percent volatile	90 - 95 % weight [Test Method: Estimated]		
VOC Less H2O & Exempt Solvents	<=6 g/l		

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## **Nanoparticles**

This material does not contain nanoparticles.

# **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 polymerization may occur. Material polymerizes rapidly by contact with water, alcohol, amines and alkalis.

#### 10.4. Conditions to avoid

Heat

## 10.5. Incompatible materials

Strong oxidizing agents

Water

Strong bases

Amines

Alcohols

## 10.6. Hazardous decomposition products

### Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **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 labeling, 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

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

# **Skin Contact:**

Bonds skin rapidly.

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Contact through clothing may cause thermal burns.

## **Eye Contact:**

Bonds eyelids rapidly.

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

# **Ingestion:**

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

# **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**

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Name	Route	Species	Value	
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg	
Ethyl Cyanoacrylate	Dermal	Rabbit	LD50 > 2,000 mg/kg	
Ethyl Cyanoacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg	
Non-Hazardous Resin	Dermal		LD50 estimated to be > 5,000 mg/kg	
Non-Hazardous Resin	Ingestion	Rat	LD50 > 5,000 mg/kg	
Hydroquinone	Dermal	Rat	LD50 > 4,800 mg/kg	
Hydroquinone	Ingestion	Rat	LD50 302 mg/kg	

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
Ethyl Cyanoacrylate	Rabbit	Mild irritant
Non-Hazardous Resin	Rabbit	No significant irritation
Hydroquinone	Human and animal	Minimal irritation

## Serious Eve Damage/Irritation

Scrious Lye Damage/III itation			
Name	Species	Value	
Ethyl Cyanoacrylate	Rabbit	Severe irritant	
Non-Hazardous Resin	Rabbit	Mild irritant	
Hydroquinone	Human	Corrosive	

## **Sensitization:**

# **Skin Sensitization**

Name	Species	Value
Ethyl Cyanoacrylate	Human	Not classified
Hydroquinone	Guinea	Sensitizing
	pig	

## **Respiratory Sensitization**

Name	Species	Value
Ethyl Cyanoacrylate	Human	Not classified

# **Germ Cell Mutagenicity**

Name	Route	Value
Ethyl Cyanoacrylate	In Vitro	Not mutagenic
Hydroquinone	In Vitro	Some positive data exist, but the data are not sufficient for classification

Hydroquinone	In vivo	Some positive data exist, but the data are not sufficient for classification
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### Carcinogenicity

Name	Route	Species	Value
Hydroquinone	Dermal	Mouse	Not carcinogenic
Hydroquinone	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

# Reproductive Toxicity

## Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Hydroquinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 150 mg/kg/day	2 generation
Hydroquinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 150 mg/kg/day	2 generation
Hydroquinone	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesis

# Target Organ(s)

# Specific Target Organ Toxicity - single exposure

Name	Route Target Organ(s)		Value	Species	Test Result	Exposure
						Duration
Ethyl Cyanoacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not	occupational
					available	exposure
Hydroquinone	Ingestion	nervous system	May cause damage to organs	Rat	NOAEL Not	not applicable
					available	
Hydroquinone	Ingestion	kidney and/or	Not classified	Rat	NOAEL 400	not applicable
		bladder			mg/kg	

# Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Hydroquinone	Ingestion	blood	Not classified	Rat	NOAEL Not available	40 days
Hydroquinone	Ingestion	bone marrow   liver	Not classified	Rat	NOAEL Not available	9 weeks
Hydroquinone	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 50 mg/kg/day	15 months
Hydroquinone	Ocular	eyes	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 labeling, 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:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Ethyl	7085-85-0		Data not			
Cyanoacrylate			available or			
			insufficient for			
			classification			
Non-Hazardous	Trade Secret		Data not			
Resin			available or			
			insufficient for			
			classification			
Hydroquinone	123-31-9	Green algae	Experimental	72 hours	Effect	0.053 mg/l
					Concentration	
					50%	
Hydroquinone	123-31-9	Rainbow Trout	Experimental	96 hours	Lethal	0.044 mg/l
					Concentration	
					50%	
Hydroquinone	123-31-9	Water flea	Experimental	48 hours	Effect	0.061 mg/l
					Concentration	
					50%	
Hydroquinone	123-31-9	Fathead	Experimental	32 days	No obs Effect	>=0.066 mg/l
		Minnow			Conc	
Hydroquinone	123-31-9	Green Algae	Experimental	72 hours	No obs Effect	0.0015 mg/l
			_		Conc	
Hydroquinone	123-31-9	Water flea	Experimental	21 days	No obs Effect	0.0029 mg/l
			_		Conc	

# 12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Ethyl	7085-85-0	Data not			N/A	
Cyanoacrylate		availbl-				
		insufficient				
Non-Hazardous	Trade Secret	Data not			N/A	
Resin		availbl-				
		insufficient				
Hydroquinone	123-31-9	Experimental	14 days	Biological	70 %	OECD 301C - MITI (I)
		Biodegradation	-	Oxygen	BOD/ThBOD	
				Demand		

# 12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Ethyl	7085-85-0	Data not	N/A	N/A	N/A	N/A
Cyanoacrylate		available or				
		insufficient for				
		classification				
Non-Hazardous	Trade Secret	Data not	N/A	N/A	N/A	N/A

Resin		available or			
		insufficient for			
		classification			
Hydroquinone	123-31-9	Experimental	Log of	0.59	Other methods
		Bioconcentrati	Octanol/H2O		
		on	part. coeff		

## 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

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

# **SECTION 14: Transport Information**

# **Marine Transport (IMDG)**

UN Number: None assigned.

Proper Shipping Name: None assigned. Technical Name: None assigned. Hazard Class/Division: None assigned. Subsidiary Risk: None assigned. Packing Group: None assigned. Limited Quantity: None assigned. Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

**Other Dangerous Goods Descriptions:** 

None assigned.

# Air Transport (IATA)

UN Number: None assigned.

Proper Shipping Name: None assigned. Technical Name: None assigned. Hazard Class/Division: None assigned. Subsidiary Risk: None assigned. Packing Group: None assigned. Limited Quantity: None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

NOT RESTRICTED - INNER PACKAGINGS NOT EXCEEDING 500 ML

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current

regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

# **SECTION 15: Regulatory information**

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

## Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

# **SECTION 16: Other information**

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 Malaysia SDSs are available at www.3M.com.my