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Material Safety Data Sheet

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1 Chemical Product and Company Identification

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Tradename:

3M(TM) SCOTCH-WELD(TM) INSTANT ADHESIVE CA-40

Product ID:

62-3803-0330-5 62-3803-0335-4 62-3803-3830-1

Intended Use of Product:

Structural Strength Instant Adhesive

Division:

AD - Industrial Adhesives and Tapes

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2 Hazards Identification

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Critical Hazards:

Combustible liquid and vapour.

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

Bonds eyelids rapidly.

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Bonds skin rapidly.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

See Sections 7 and 11 for further information.

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### 3 Composition/Information on Ingredients

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Ingredient Name	CAS Number	Percentage
ETHYL CYANOACRYLATE	7085-85-0	60 - 100
POLY(METHYL METHACRYLATE)	9011-14-7	1 - 5
HYDROQUINONE	123-31-9	0.1 - 0.5

**NOTE:**

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

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### 4 First Aid Measures

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**Instructions for Eye Contact:**

Immediately flush eyes with large amounts of water for at least 30 minutes. Get immediate medical attention. DO NOT PEEL EYELIDS APART.

**Instructions for 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.

**Instructions for Inhalation:**

Remove person to fresh air. If signs/symptoms develop, get medical attention.

**Instructions for Ingestion:**

Do not induce vomiting unless instructed to do so by medical personnel. Get medical attention.

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### 5 Fire Fighting Measures

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Flash point: 79.4 C CC  
Lower Explosive Limit (%): Not Available  
Upper Explosive Limit (%): Not Available  
Autoignition temperature: Not Available

**Suitable Extinguishing Media:**

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

**Exposure Hazards during Fire:**

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

**Combustion Products from Fire:**

Carbon monoxide - During Combustion;  
Carbon dioxide - During Combustion;  
Oxides of Nitrogen - During Combustion;

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#### Unusual Fire and Explosion Hazards

Combustible liquid and vapour.

#### Fire Fighting Procedures:

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 equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health 2

NFPA: Fire 2

NFPA: Reactivity 1

NFPA: Unusual Reaction Hazard

none

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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## 6 Accidental Release Measures

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#### Personal Precautions:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. 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.

#### Environmental Procedures

Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

#### Methods for 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. Collect as much of the spilled material as possible. Collect as much of the spilled material as possible using non-sparking tools.

#### Spill Response:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

#### Special Instructions:

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DO NOT wipe spill or residue with cleanup materials containing cotton.

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## 7 Handling and Storage

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### Storage Requirements:

No data available.

### Incompatible Materials:

Store away from heat;  
Sparks and/or Flames;  
Store out of direct sunlight.  
Store away from acids;  
Store away from oxidizing agents.  
Strong bases;  
Amines;

### Ventilation:

No data available.

### Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Combustible liquid and vapour.

### Use Instructions:

For industrial or professional use only.  
Avoid contact with oxidizing agents.

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## 8 Exposure Controls/Personal Protection

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### Personal Protection

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#### Eye Protection:

Avoid eye contact with vapours, mists, or spray.  
The following should be worn alone or in combination, as appropriate, to prevent eye contact:  
Safety glasses with side shields  
Indirect vented goggles;

#### Hand Protection:

DO NOT wear cotton gloves.  
The following glove material(s) are recommended:  
butyl rubber;  
polyvinyl alcohol;  
polyethylene/ethylene vinyl alcohol;

#### Skin Protection:

Avoid skin contact.  
Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.  
The following protective clothing material(s) are recommended:

Apron - Polyethylene/ethylene vinyl alcohol

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

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

Half facepiece air-purifying respirator with organic vapor cartridges and N95 particulate prefilters

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Do not use in a confined area or areas with little or no air movement.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

ETHYL CYANOACRYLATE (7085-85-0)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

> 5 ml/kg

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

ACGIH-TWA: 0.2 ppm ACGIH: TWA

POLY(METHYL METHACRYLATE) (9011-14-7)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

HYDROQUINONE (123-31-9)

LD50 (rat, oral)

320 mg/kg

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

CMRG: STEL 2 mg/m<sup>3</sup>

ACGIH: TWA 4 mg/m<sup>3</sup> (Table A3) 1 mg/m<sup>3</sup> ACGIH: TWA; Sensitizer 4 mg/m<sup>3</sup> CMRG: STEL

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## 9 Physical and Chemical Properties

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Physical form,Color,Odour:	Liquid; thin liquid; Clear; Colourless; sharp, irritating odour;
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	55.0 C @ 2 mmHg
Melting point/melting range:	No data available.
Vapour pressure:	<= 1 Pa
Water Solubility:	Nil
Partition coefficient (K o/w):	Not Available
Specific gravity:	1.05 Water=1
Vapour density:	4.5 Air=1
Volatile organic compounds:	<= 105 gms/liter EPA24T (EU VOC content)
Evaporation rate:	Negligible
Viscosity:	10 - 30 centipoise
Percent Volatile:	90 - 100 % by weight Estimated

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## 10 Stability and Reactivity

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Conditions to Avoid:  
Store away from heat;  
Store out of direct sunlight.  
Sparks and/or Flames;

Materials to Avoid:  
Store away from acids;  
Store away from oxidizing agents.  
Strong bases;  
Amines;

Hazardous Decomposition:  
Carbon monoxide - During Combustion;  
Carbon dioxide - During Combustion;  
Oxides of Nitrogen - During Combustion;

Stability and Reactivity:  
Stable. Hazardous polymerization may occur. May occur in large quantities only. This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

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## 11 Toxicological Information

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

Bonds eyelids rapidly.

Vapours released during curing may cause eye irritation.

Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Bonds skin rapidly.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation:

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

Effects from Ingestion:

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

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

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## 12 Ecological Information

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Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

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## 13 Disposal Considerations

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Product as Sold:

No data available.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

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## 14 Transport Information

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### Transportation of Dangerous Goods

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TDG Classification: Non-Regulated Material  
Special Information:: Contact 3M for more information.  
These transportation classifications are provided as a customer service. As the shipper 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 original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

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## 15 Regulatory Information

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WHMIS Classification: B3, D2B

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

AICS - Australian Inventory of Chemical Substances

DSL - Domestic Substances List (Canada)

EINECS - European Inventory of Existing Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

KECI - Korean Existing Chemicals Inventory

CICS - Chinese Inventory of Chemical Substances

MITI - Ministry of International Trade and Industry (JAPAN)

PICCS - Philippines Inventory of Commercial Chemical Substances

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## 16 Other Information

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Reason for Reissue:

The following Sections and topics have been updated or revised:  
Section 2 - Hazards Identification - Critical Hazards;



Section 6 - Accidental Release Measures;  
Section 7 - Handling and Storage;  
Section 9 - Physical and Chemical Properties;  
Section 10 - Stability and Reactivity;  
Section 11 - Toxicological Information;  
Section 13 - Disposal Considerations;

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