M-Bond Curing Agent 600/610

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Version: 1.0

SAFETY DATA SHEET IN ACCORDANCE WITH: SCHEDULE 1 OF HAZARDOUS PRODUCTS REGULATIONS (HPR) (WHMIS 2015)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name M-Bond Curing Agent 600/610

Other Means of Identification Not applicable

Recommended use and restrictions

Recommended use Adhesives

Restrictions on use Anything other than the above.

Initial Supplier Identifier

Company Identification VISHAY MEASUREMENTS GROUP, INC.

> Post Office Box 27777 Raleigh, NC 27611

USA

Telephone +1 919-365-3800

E-Mail (competent person) mm.us@vpgsensors.com

Emergency telephone number

Emergency Phone No. 1-800-424-9300 CHEMTREC (24 hours)

Languages spoken English, French

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture In accordance with Schedule 1 of Hazardous products regulations (HPR) (WHMIS 2015)

Flammable liquid, Category 2 Acute toxicity (oral), Category 4 Skin Sensitizer, Category 1 Serious Eye Damage, Category 1 Respiratory Sensitizer Category 1

Specific target organ toxicity — single exposure, Category 3, Irritation to

respiratory tract

Specific target organ toxicity — single exposure, Category 3, Narcotic effects

Carcinogen, Category 2

Label elements

Hazard Pictogram(s)









DANGER Signal Word(s)

Hazard Statement(s) Highly flammable liquid and vapour.

Harmful if swallowed.

May cause an allergic skin reaction. Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

Precautionary Statement(s) Obtain special instructions before use.

> Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Ground/bond container and receiving equipment.

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MICROE MEASUREMENTS

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Use explosion-proof electrical/ventilating/lighting/equipment.

Use non-sparking tools.

Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Wash hands and exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing vapours.

[In case of inadequate ventilation] wear respiratory protection.

Contaminated work clothing must not be allowed out of the workplace.

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower. If skin irritation or rash occurs: Get medical advice/attention.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents/container to hazardous waste collection point.

Other hazards

May form explosive peroxides.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures

GHS Classification

Chemical Name	CAS No.	Concentration (%W/W)	Common name(s), synonym(s) of the substance	Hazard classification
Tetrahydrofuran	109-99-9	>25 - <95	Furan, tetrahydro-	Flammable liquid, Category 2 Acute toxicity (oral), Category 4 Eye irritation, Category 2 Specific target organ toxicity — single exposure, Category 3, Irritation to respiratory tract Specific target organ toxicity — single exposure, Category 3, Narcotic effects Carcinogen, Category 2 Specific Concentration Limit Eye Irritation - Category 2: C ≥ 25% Specific target organ toxicity — single exposure, Category 3, Irritation to respiratory tract: C ≥ 25% Specific target organ toxicity — single exposure, Category 3, Narcotic effects: C ≥ 25%

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1,2,4,5- Benzenetetracarboxyli 89- c Dianhydride	-32-7 >5 - <25	Pyromellitic dianhydride	Serious Eye Damage, Category 1 Skin Sensitizer, Category 1 Respiratory Sensitizer Category 1
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Prescribed Concentration Ranges used for trade secret purposes (Canada Gazette, Part II, Vol. 152, No. 8)

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eve Contact

Ingestion

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and

special treatment needed

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid breathing vapours. Avoid all contact. Contaminated clothing should be laundered before reuse.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary (do not employ mouth-to-mouth method).

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Hold eve open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Make victim drink plenty of water. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

Treat symptomatically. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Unsuitable extinguishing Media

Special hazards arising from the substance or mixture

Special protective equipment and precautions for fire fighters

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Do not use water jet. Direct water jet may spread the fire.

Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide, Phenolic and Explosive Peroxides. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Prevent liquid entering sewers, basements and workpits; vapour may create explosive atmosphere. May form explosive peroxides. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment

and emergency procedures

Environmental precautions

Methods and material for containment and cleaning up

Reference to other sections

Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protective equipment as required. See Section: 8. Avoid breathing vapours. Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body. Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage, including any

incompatibilities

Storage temperature

Incompatible materials

Ensure operatives are trained to minimise exposures. Avoid all

contact. Do not

breathe

Ensure adequate ventilation. vapour.

Wear

appropriate personal

protective equipment, avoid direct contact. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Contaminated clothing should be

laundered before reuse.

Store in a well-ventilated place. Keep container tightly closed. Keep

cool. Keep

away from heat, sources of ignition and direct sunlight. Ambient. Keep at temperature not

exceeding (°C): 27

from:

awav

Flammable Strong liquids, oxidisina

agents, corrosive

substances, strong acid and bases

Keep

See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Specific end use(s)

Occupational Exposure Limits

Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note	Source
Tetrahydrofuran	109-99-9	50	-	100	-	Skin; A3	ACGIH

Source:

ACGIH: American Conference of Governmental Industrial Hygiene TLV: Threshold limit value 2021

Notes:

Skin: Can be readily absorbed through intact skin, mucous membranes, eyes. A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans

SUBSTANCE	CAS No.	8-hour Occupational Exposure Limits		15-minute Or ceiling Occupational Exposure Limits		Note	
		ppm	mg/m³	f/cc	STEL (ppm)	STEL (mg/m³)	
Tetrahydrofuran	109-99-9	50	147	-	100	295	Alberta, 1
		100	300	-	-	-	OEL

Source: Alberta - Occupational Health And Safety Code, 2020

OEL: Quebec Work Health and Safety Regulations (chapter S - 2.1, a. 223)

Notes:

1: Can be readily absorbed through intact skin.

Biological limit value

None assigned.

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Exposure controls

Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit. A washing facility/water for eye and skin cleaning purposes should be present.

Appropriate engineering controls

General hygiene measures for the handling of chemicals are applicable. Keep good industrial hygiene. Avoid all contact. Avoid breathing vapours. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place.

IF exposed: Flush with fresh water if contact with skin or eyes.

Individual protection measures, such as personal protective equipment (PPE)

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection



Hand protection:

Wear impervious gloves (EN374). Protective index 6, corresponding > 480 minutes of permeation time according to EN 374.

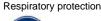
Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Recommended:: Polyethylene-Nylon Laminate Gauntlet

Body protection:

Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.





SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Odour

Odour threshold

Melting point/freezing point

Initial boiling point and boiling range

Flash point

Evaporation rate (Water = 1) Flammability (solid, gas)

Upper/lower flammability or explosive limits

Vapour pressure Vapour density Relative density Solubility(ies)

Almost colourless to pale yellow / Amber Liquid

Ether-like Odour Not available. Not established. Not established. 66℃ (Mixture)

-14℃ (Tetrahydrofuran) [Closed cup]

>1

Not applicable - Liquid

Flammable Limits (Lower) (%v/v): 1.8, Flammable Limits (Upper) (%v/v) 11.8.

145 mmHg @ 15℃

2.5 (Air = 1)

0.9 g/cm3 (H2O = 1) (Mixture)

Soluble in: Water

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Not available. Partition coefficient: n-octanol/water Auto-ignition temperature Not available. Not available. **Decomposition Temperature** Not available. Viscosity

Explosive properties Not explosive. May form explosive peroxides.

Oxidising properties Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions. May form peroxides on prolonged storage if air

is present.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions Highly flammable liquid and vapour. The vapour may be invisible, heavier than

> air and spread along ground. May form explosive peroxides. Contact with aliphatic amines will cause irreversible polymerization with considerable heat

build-up. May polymerise on prolonged heating.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition

> sources. No smoking. Keep away from direct sunlight. Keep at a temperature not exceeding (°C): 32. Avoid contact with air. Avoid contact with heat and ignition sources and oxidizers. Avoid distillation to dryness, which can form

explosive peroxides.

Oxidizing agents, Corrosive Substances, Reducing agent, Strong Acids and Incompatible materials

Alkalis. Mild steel. Reacts violently with - Oxidizing agents and Acids. May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon

dioxide, Phenolic and Explosive Peroxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Hazardous decomposition product(s)

Information on toxicological effects

Acute toxicity - Ingestion Mixture: Acute Toxicity (oral), Category 4; Harmful if swallowed.

Acute Toxicity Estimate Mixture Calculation: Estimated LD50 >300 ≤ 2,000 mg/kg.

Tetrahydrofuran Acute Toxicity (oral), Category 4; Harmful if swallowed.

LD50: 1650 mg/kg/BW ECHA registration dossier

Acute toxicity - Inhalation **Acute toxicity - Skin Contact** Skin corrosion/irritation Serious eye damage/irritation

Germ cell mutagenicity

Carcinogenicity

Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: Serious eye damage, Category 1; Causes serious eye damage.

Tetrahydrofuran Eye irritation, Category 2; Causes eye irritation. (SCL ≥ 25%).

Test Result: Corrosive to eyes. (rabbit) (Unnamed publication, 1971).

Harmonised Classification; ECHA registration dossier

1,2,4,5-Benzenetetracarboxylic Dianhydride Serious eye damage, Category 1; Causes serious eye damage.

Test Result: Corrosive to eyes. OECD 405 (rabbit) Harmonised Classification; ECHA registration dossier

Respiratory or skin sensitization Mixture: Skin sensitizer, Category 1; May cause an allergic skin reaction.

Respiratory sensitizer, Category 1; May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin sensitizer, Category 1; May cause an allergic skin reaction. 1,2,4,5-Benzenetetracarboxylic Dianhydride

Respiratory sensitizer, Category 1; May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Test Result: Adverse effects observed (Sensitizing). OECD 429 and EU Method

B.42 (Mouse) (Unnamed publication, 2009).

Test Result: Severely irritating to respiratory system. (rat) (Unnamed publication,

1989)

Harmonised Classification; ECHA registration dossier

Mixture: Based upon the available data, the classification criteria are not met.

Mixture: Carcinogen, Category 2; Suspected of causing cancer.

Tetrahydrofuran Carcinogen, Category 2; Suspected of causing cancer.

EU Harmonised Classification.

Reproductive toxicity Mixture: Based upon the available data, the classification criteria are not met.

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STOT - single exposure Mixture: STOT-single exposure, Category 3; May cause respiratory irritation.

STOT-single exposure, Category 3; May cause drowsiness or dizziness.

Tetrahydrofuran STOT-single exposure, Category 3; May cause respiratory irritation. (SCL ≥ 25%).

EU Harmonised Classification.

STOT-single exposure, Category 3; May cause drowsiness or dizziness. Test Result: Irritation to respiratory tract (Rat), LC50: 375mg/L air (Unnamed

publication, 1979).

Test Result: Central nervous depression, NOEC (rats): 500ppm (Malley et al,

2001)

STOT - repeated exposure Mixture: Based upon the available data, the classification criteria are not met.

Aspiration hazard Mixture: Based upon the available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Based upon the available data, the classification criteria are not met.

Estimated Mixture LC50 >100 mg/l (Fish)

Persistence and degradability

No data for the mixture as a whole.

Tetrahydrofuran Inherently Biodegradable in water

1,2,4,5-Benzenetetracarboxylic Dianhydride Read across: Pyromellitic acid PMA

Readily biodegradable.

Degradation in water (28 days): 100% (OECD 301 B)

Bioaccumulative potential No data for the mixture as a whole.

Tetrahydrofuran Low bioaccumulative potential (log Kow ≤ 3)

1,2,4,5-Benzenetetracarboxylic Dianhydride The product has low potential for bioaccumulation. Bioconcentration factor

(BCF):1.0 Log Pow: < -2

Mobility in soil No data for the mixture as a whole.

Tetrahydrofuran Test not required. Low partition coefficient n-octanol/water (REACH Annex VIII,

column EU Data 2)

ECHA registration dossier

 $1,\!2,\!4,\!5\text{-Benzenetetra} carboxylic\ Dianhydride\ The\ substance\ has\ high\ mobility\ in\ soil.$

Log Koc: 0.155 (OECD 121 and EU Method C.19)

Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Dispose of this material and its container as hazardous waste. Send after pre-

treatment to a appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance with local, state or national

legislation.

SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMDG	IATA/ICAO
14.1	UN number	UN 1133	UN 1133	UN 1133
14.2	UN proper shipping name	ADHESIVES containing	ADHESIVES containing	ADHESIVES containing

flammable liquid flammable liquid flammable liquid flammable liquid 3 3 3 14.4 Packing group II II II II

14.5 Environmental hazards Not classified Not classified as a Marine Not classified

Pollutant.

Special precautions for user

Not applicable

14.6 Special precautions for user
 14.7 Transport in bulk according to Annex II of
 See Section: 2

MARPOL73/78 and the IBC Code

Occ Occilon. 2

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SECTION 15: REGULATORY INFORMATION

Safety, health and environmental

regulations/legislation specific for the substance or

mixture

National regulations

CEPA, Domestic Substances List Listed: Tetrahydrofuran; 1,2,4,5-Benzenetetracarboxylic Dianhydride

CEPA, Non-Domestic Substances List (NDSL)

Listed: 1,2,4,5-Benzenetetracarboxylic acid

CEPA, Priority Substances List

CEPA, List of Toxic Substances (Schedule 1)

CEPA, National Pollutant Release Inventory

CEPA, Environmental Emergency Regulations

All chemicals are not listed (VOC)

Tetrahydrofuran: listed (VOC)

All chemicals are not listed

Non-Regional

IARC Monographs, List of Classifications

Tetrahydrofuran IARC Classification: Group 2B.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

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References:

Existing Safety Data Sheet (SDS). Harmonised Classification(s) for Tetrahydrofuran (CAS No. 109-99-9) and 1,2,4,5-Benzenetetracarboxylic Dianhydride (CAS No. 89-32-7). Existing ECHA registration(s) for Tetrahydrofuran (CAS No. 109-99-9) 1,2,4,5-Benzenetetracarboxylic Dianhydride (CAS No. 89-32-7).

Literature References:

1. Malley, L.A., Christoph G.R., Stadler, J.C., Hansen, J.F., Biesemeir, J.A. and Jasti, S. (2001). Acute and subchronic neurotoxicology evaluation of tetrahydrofuran by inhalation in rats. Drug Chem. Toxicol., 24(3): 201-219

GHS Classification of the substance or mixture	Classification Procedure		
Flammable Liquid, Category 2	Flash Point Test Result		
Acute Toxicity - Oral, Category 4	Acute Toxicity Estimate (ATE) Calculation.		
Skin Sensitizer, Category 1	Threshold Calculation		
Eye Damage, Category 1	Threshold Calculation		
Respiratory Sensitizer, Category 1	Threshold Calculation		
STOT, Single Exposure, Category 3 - Respiratory Tract Irritation	Threshold Calculation		
STOT, Single Exposure, Category 3 - Narcotic Effects	Threshold Calculation		
Carcinogen, Category 2	Threshold Calculation		

This safety data sheet was compiled in accordance with Schedule 1 of Hazardous products regulations (HPR) (WHMIS 2015)

LEGEND

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ACGIH American Conference of Governmental Industrial Hygiene

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CEPA Canadian Environmental Protection Act

EC European Community
ECHA European Chemicals Agency

EU European Union

IATA International Air Transport Association
IARC International Agency for Research on Cancer
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods

LC50 Lethal concentration at which 50% of the population is killed

LD50 Lethal dose at which 50% of the population is killed

MICRO E MEASUREMENTS A VPG Brand

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LTEL Long term exposure limit

OECD Organisation for Economic Cooperation and Development

OSHA Occupational Safety and Health Administration

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SCL Specific Concentration Limit
STEL Short term exposure limit
TLV Threshold Limit Value
TWA Time Weighted Average

UN United Nations

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