SAFETY DATA SHEET

M-Bond 300 Resin

www.vpgsensors.com

ACCORDING TO: Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

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Version: 1.1

SECTION 1: IDENTIFICATION

1.1 Product identifier used on the label — M-Bond 300 Resin

Other means of identification — None

1.2 Recommended use of the chemical and restrictions on use

Recommended use	Adhesives, Sealants.
Restrictions on use	None Known

1.3 Suppliers name, address and telephone number

Supplier	VISHAY MEASUREMENTS GROUP, INC.
Address of Supplier	Post Office Box 27777 Raleigh, NC 27611 USA
Telephone	+1 919-365-3800 / +1 919-365-3945
E-Mail (competent person)	mm.us@vpgsensors.com

1.4 Emergency telephone number

1-800-424-9300 (24 hours)
61-290372994 (for spills and releases)
CHEMTREC (U.S.)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 In accordance with the Safe Work Australia model Work Health and Safety Regulations (2020) & GHS 7

Flammable liquid - Category 3; H226
Skin corrosion/irritation - Category 2; H315
Eye irritation, Category 2; H319
Acute toxicity - Category 4; H332
Specific target organ toxicity — single exposure - Category 3; H335
Specific target organ toxicity — single exposure - Category 3; H336
Germ cell mutagenicity, Category 2; H341
Carcinogen, Category 1B; H350i
Reproductive toxicity, Category 1B; H360Fd
Specific target organ toxicity — repeated exposure - Category 1; H372
Hazardous to the aquatic environment, Chronic - Category 3; H412

2.2 GHS Label elements, including precautionary statements

Product Name — M-Bond 300 Resin

Hazard Symbol


Flame


Health hazard


Exclamation mark

Signal Word(s) — DANGER

Hazard Statement(s)

H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

		H332: Harmful if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H341: Suspected of causing genetic defects. H350i: May cause cancer by inhalation. H360FD: May damage fertility. May damage the unborn child. H372: Causes damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.
	Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention. P302+P352: IF ON SKIN: Wash with plenty of water. P312: Call a POISON CENTER/doctor if you feel unwell.
	Other Hazards	None Known
2.3	Other Hazards that do not Result in Classification	None Known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances** Not applicable

3.2 **Mixtures** Substances in preparations / mixtures
GHS Classification

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Styrene	30 - 50	100-42-5	202-851-5	Flammable liquid - Category 3; H226 Skin corrosion/irritation - Category 2; H315 Eye irritation, Category 2; H319 Acute toxicity - Category 4; H332 Specific target organ toxicity — single exposure - Category 3; H335 Specific target organ toxicity — single exposure - Category 3; H336 Germ cell mutagenicity, Category 2; H341 Reproductive - Category 2; H361d Specific target organ toxicity — repeated exposure - Category 1; H372 Hazardous to the aquatic environment, Chronic - Category 3; H412
Silica, Amorphous, Fumed, Cryst.-Free	2 - 5	112945-52-5	601-216-3	Skin corrosion/irritation - Category 2; H315 Eye irritation, Category 2; H319 Specific target organ toxicity — single exposure - Category 3; H3365
Cobalt bis(2-ethylhexanoate)	< 0.5	136-52-7	205-250-6	Skin sensitizer, Category 1; H317 Eye irritation, Category 2A; H319 Respiratory sensitisation, category 1; H334 Carcinogen, Category 1B; H350i Reproductive toxicity, Category 1B; H360Fd Specific target organ toxicity — repeated exposure - Category 1; H372 Hazardous to the aquatic environment, acute, Category 1; H400

				Hazardous to the aquatic environment, Chronic - Category 3; H412

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First aid facilities	Eyewash facilities should be stationed close to workplace where possible.
Self-protection of the first aider	Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Contaminated clothing should be laundered before reuse. Do not breathe vapour. Ensure adequate ventilation. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Do not use mouth-to-mouth resuscitation.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.
Skin Contact	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.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.
Ingestion	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. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media	Foam, CO2 or dry powder.
Unsuitable extinguishing Media	Water

5.2 Special hazards arising from the chemical

Flammable liquid and vapour. Combustion products: Aniline and Carbon monoxide, Carbon dioxide. Vapours may form explosive mixture with air.

5.3 Special protective equipment and precautions for fire fighters

Eliminate all ignition sources if safe to do so. Evacuate area. 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.

5.4 Hazchem Code

●3Y

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Take precautionary measures against static discharge. Eliminate all ignition sources if safe to do so. Do not breathe vapour. In case of insufficient ventilation, wear suitable respiratory equipment. Stop leak if safe to do so. Keep away from sources of ignition. - No smoking. Wear suitable protective clothing, gloves and

eye/face protection. In case of fire: Wear self-contained breathing apparatus. Wear suitable gloves and eye/face protection. Evacuate area. Stop leak if safe to do so. Provide adequate ventilation. Avoid all contact.
See Section: 8.

6.2 Environmental precautions

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.

6.3 Methods and material for containment and cleaning up

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. Dispose of this material and its container as hazardous waste. Ventilate the area and wash spill site after material pick-up is complete.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure operatives are trained to minimise exposures. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid all contact. Do not breathe vapour. Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. May form explosive peroxides. Take precautionary measures against static discharges. 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.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep from direct sunlight.

Storage temperature	Stable at ambient temperatures.
Storage life	Stable under normal conditions.
Incompatible materials	Keep away from oxidising agents.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational Exposure Limits

Chemical name	Synonym(s)	CAS No.	TWA (ppm)	TWA (mg/m^3)	STEL (ppm)	STEL (mg/m^3)	Advisory carcinogen category	Other advisory information	Notes
Styrene, monomer	Phenylethylene Vinyl benzene	100-42-5	50	213	100	426	-	-	

Source: Safe Work Australia Workplace Exposure Standards for Airbourne Contaminants (2019)

8.1.2 Biological exposure indicies

Not established

8.2 Appropriate engineering controls

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.

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

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.

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. (Recommended: EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Neoprene or rubber gloves are recommended.

Body protection
Wear chemical resistant apron.

Respiratory protection

Respiratory protection is not necessary if room is well ventilated. In case of inadequate ventilation wear respiratory protection.

Thermal hazards — Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Opaque amber liquid
Odour	Pungent
Odour threshold	Not available
pH	Not established.
Melting point and freezing point	-30℃ (Styrene)
Boiling point or initial boiling point and boiling range	146℃ (Styrene)
Flash point	32℃ [Closed cup]
Evaporation rate	0.49 (Styrene) (BuAc = 1)
Flammability	Not applicable - Liquid
Lower and upper explosion limit or lower and upper flammability limit	Flammable Limits (Upper) (%v/v): 61 (Styrene) Flammable Limits (Lower) (%v/v): 1.1 (Styrene)
Vapour pressure	6.7 (hPA) @ 20℃ (Styrene)
Relative vapour density	3.6 (Air = 1) (Styrene)
Density and Relative density	1.08 +/- 0.04 @ 25℃ (Water = 1)
Solubility	Water: >50%
Partition coefficient n-octanol/water (log value)	Not available
Auto-ignition temperature	490℃ (Styrene)
Decomposition temperature	Not available
Kinematic viscosity	0.77 mm²/s @ 25℃ (Styrene)
Specific heat	Not established.
Saturated Vapour Concentration	Not established.
Release of invisible flammable vapours and gases	Not applicable
Particle characteristics	Not applicable (Liquid)
Particle size distribution	Not applicable (Liquid)
Shape and aspect ratio	Not applicable (Liquid)
Crystallinity	Not applicable (Liquid)
Level of dustiness	Not applicable (Liquid)
Surface Area	Not applicable (Liquid)
Degree of aggregation or agglomeration, and dispersibility	Not applicable (Liquid)
Redox potential	Not established.
Biodurability or biopersistence	Not established.
Surface coatings	Not established.

9.2 Additional parameters

Volatile Organic Compound Content	Not established.
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity — Stable under normal conditions.

10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	Flammable Liquid. Monitor stored material for loss of inhibitors. The following may occur: Hazardous Polymerization. Susceptible to violent exothermic polymerisation, initiated by heating or the presence of catalysts. Pressure buildup can be rapid.
10.4	**Conditions to avoid**	Keep away from fire, sparks and heated surfaces. Use only non-sparking tools. Monitor stored material for loss of inhibitors. Keep at a temperature not exceeding (℃): 65 (Hazardous Polymerization).
10.5	**Incompatible materials**	Keep away from: Copper, copper alloy, Brass and Polymerisation catalysts such as peroxy or azo compounds, strong acids, alkalis, oxidising agents and metal salts.
10.6	**Hazardous decomposition product(s)**	May decompose in a fire giving off toxic fumes. Oxides of carbon and hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	**Information on toxicological effects** (Substances in preparations / mixtures)		
11.2	**Acute toxicity**		
	Ingestion		Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE): estimated LD50: > 5,000 mg/kg.
11.2.1	**Inhalation**		Mixture: Acute toxicity, Category 4; H332: Harmful if inhaled. Calculated acute toxicity estimate (ATE): estimated LC50 > 5,000 mg/l (Vapour).
		Styrene	Acute toxicity, Category 4; H332: Harmful if inhaled. (Hazardous Chemical Information System (HCIS))
11.2.2	**Dermal**		Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE): estimated LD50: >5,000 mg/kg.
11.2.3	**Skin corrosion/irritation**		Mixture: Skin corrosion/irritation, Category 2: Causes skin irritation.
		Styrene	Skin corrosion/irritation, Category 2: Causes skin irritation. (Hazardous Chemical Information System (HCIS))
		Silica, Amorphous, Fumed, Cryst.-Free	Skin corrosion/irritation, Category 2: Causes skin irritation. (EU classification and labelling inventory, Notifiers; 1338)
11.2.4	**Serious eye damage/irritation**		Mixture: Eye irritation, Category 2: Causes serious eye irritation.
		Styrene	Eye irritation, Category 2: Causes serious eye irritation. (Hazardous Chemical Information System (HCIS))
		Silica, Amorphous, Fumed, Cryst.-Free	Eye irritation, Category 2: Causes serious eye irritation. (EU classification and labelling inventory, Notifiers; 1338)
11.2.5	**Respiratory or skin sensitization**		Mixture: Based upon the available data, the classification criteria are not met.
11.2.6	**Germ cell mutagenicity**		Mixture: Germ cell mutagenicity, Category 2; H341: Suspected of causing genetic defects.
		Styrene	Germ cell mutagenicity, Category 2; H341: Suspected of causing genetic defects. (Hazardous Chemical Information System (HCIS))
11.2.7	**Carcinogenicity**		Mixture: Carcinogenicity – category 1B; H350i: May cause cancer by inhalation.
		Cobalt bis(2-ethylhexanoate)	Carcinogenicity – category 1B; H350i: May cause cancer by inhalation. (Hazardous Chemical Information System (HCIS))
11.2.8	**Reproductive toxicity**		Mixture: Reproductive toxicity, Category 1B; H360Fd: May damage fertility. Suspected of damaging the unborn child.
		Styrene	Reproductive toxicity, Category 2; H361d: Suspected of damaging the unborn child. (Hazardous Chemical Information System (HCIS))
		Cobalt bis(2-ethylhexanoate)	Reproductive toxicity, Category 1B; H360Fd: May damage fertility. Suspected of damaging the unborn child. (Hazardous Chemical Information System (HCIS))
11.2.9	**STOT - single exposure**		Mixture: Specific target organ toxicity — single exposure - Category 3: H335: May cause respiratory irritation. Specific target organ toxicity — single exposure - Category 3: H336: May cause drowsiness or dizziness.

		Styrene	Specific target organ toxicity — single exposure - Category 3: H335: May cause respiratory irritation. Specific target organ toxicity — single exposure - Category 3: H336: May cause drowsiness or dizziness. (Hazardous Chemical Information System (HCIS))
11.2.10	**STOT - repeated exposure**		Mixture: Specific target organ toxicity — repeated exposure, Category 1: H372: Causes damage to organs through prolonged or repeated exposure.
		Styrene	Specific target organ toxicity — repeated exposure, Category 1; H372: Causes damage to organs through prolonged or repeated exposure. (Hazardous Chemical Information System (HCIS))
11.2.11	**Aspiration hazard**		Mixture: Based upon the available data, the classification criteria are not met.
11.2.12	**Information on likely routes of exposure**		
	Inhalation		Possible route of exposure.
	Ingestion		Possible route of exposure.
	Skin Contact		Possible route of exposure.
	Eye Contact		Possible route of exposure.
11.2.13	**Early onset symptoms related to exposure**		Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.
11.2.14	**Delayed health effects from exposure**		May cause damage to organs through prolonged or repeated exposure. May cause cancer by inhalation.
11.2.15	**Exposure levels and health effects**		See section 8
11.2.16	**Interactive effects**		None Known
11.3	**Other information**		None Known
	NTP Report on Carcinogens		Styrene, Cobalt bis(2-ethylhexanoate)
	IARC Monographs		Styrene: Group 2A Silica, Amorphous, Fumed, Cryst.-Free: Group 3 Cobalt bis(2-ethylhexanoate): Group 2B

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Ecotoxicity**		Mixture: Hazardous to the aquatic environment, Acute, Category 3; Harmful to aquatic life with long lasting effects.
		Styrene	Hazardous to the aquatic environment, Acute, Category 3; Harmful to aquatic life with long lasting effects. LC50: 4.02 mg/L (96 hour) (Fish) (ECHA registration dossier)
12.2	**Persistence and degradability**		No data for the mixture as a whole.
		Styrene	Readily biodegradable. Water % Degradation: > 50% (Fu at al. 1992)
		Silica, Amorphous, Fumed, Cryst.-Free	No data
		Cobalt bis(2-ethylhexanoate)	Readily biodegradable. Water % Degradation: > 60% (OECD 301 B)
12.3	**Bioaccumulative potential**		No data for the mixture as a whole.
		Styrene	Not anticipated to bioaccumulate BCF: 74 (European Chemicals Bureau, 2002)
		Silica, Amorphous, Fumed, Cryst.-Free	No data
		Cobalt bis(2-ethylhexanoate)	Not anticipated to bioaccumulate BCF: <300 (Warnau et al. 1999)
12.4	**Mobility in soil**		No data for the mixture as a whole.
		Styrene	The substance has moderate mobility in soil. Log Koc: 3.02 (European Chemicals Bureau, 2002)
		Silica, Amorphous, Fumed, Cryst.-Free	No data
		Cobalt bis(2-ethylhexanoate)	The substance has moderate mobility in soil.

		Log kd = 2.1
12.5	**Other adverse effects**	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Safe handling and disposal methods**	Do not release undiluted and unneutralised to the sewer. Dispose of contents in accordance with local, state or national legislation. Dispose of this material and its container as hazardous waste.
13.2	**Disposal of contaminated packaging**	Containers of this material may be hazardous when empty since they retain product residue. Handle contaminated packages in the same way as the substance itself.
13.3	**Environmental regulations**	Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

		ADG	**IMDG**	**IATA/ICAO**
14.1	**UN number**	UN 1866	UN 1866	UN 1866
14.2	**Proper Shipping Name**	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
14.3	**Transport hazard class(es)**	3	3	3
14.4	**Packing group**	III	III	III
14.5	**Environmental hazards**	Classified as a Marine Pollutant.	Classified as a Marine Pollutant.	Classified as a Marine Pollutant.
14.6	**Special precautions for user**	See Section: 2		
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**	Not applicable.		
14.8	**Hazchem code**	●3Y		

SECTION 15: REGULATORY INFORMATION

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

15.2 **International Regulations** (for example)

Montreal Protocol/Stockholm Convention/ Rotterdam Convention/ Basel Convention / MARPOL	All chemicals are not listed

15.3 **National Regulations**

Australian Inventory of Chemical Substances (AICS)	All components are listed on AICS
NICNAS - Priority Existing Chemicals	All chemicals are not listed
NICNAS - IMAP Framework	Styrene: Tier II: Human Health Assessment 2 Silica, Amorphous, Fumed, Cryst.-Free: Tier I: Human Health Assessment Tier I: Environment Assessment Cobalt bis(2-ethylhexanoate): Tier II: Human Health Assessment
NICNAS - High Volume Industrial Chemical List	Styrene: Threshold Range: Between 10,000 and 99,999 tonnes
National Pollutant Inventory	Styrene: Threshold Category = 1, Threshold = 10 tpa Cobalt bis(2-ethylhexanoate): Cobalt compound - Threshold Category = 1, Threshold = 10 tpa
The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)	Styrene: Schedule 5 Cobalt bis(2-ethylhexanoate):Schedule 10

SECTION 16: OTHER INFORMATION

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

Version: 1.0 **Revision Date:** not applicable – V1.0 **Date of First Issue:** 18 August 2021

References:

EU classification and labelling inventory for Silica, Amorphous, Fumed, Cryst.-Free (CAS No. 112945-52-5), Cobalt bis(2-ethylhexanoate) (CAS No. 136-52-7).

Harmonised Classification(s) for Styrene (CAS No. 100-42-5).

Existing Safety Data Sheet (SDS)
ECHA registration dossier for Cobalt bis(2-ethylhexanoate) (CAS No. 136-52-7), Styrene (CAS No. 100-42-5).

The mixture is classified in accordance with Safe Work Australia model Work Health and Safety Regulations (2020) & GHS 7

LEGEND

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
BCF	Bioconcentration factor
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LTEL	Long term exposure limit
NICNAS	National Industrial Chemicals Notification and Assessment Scheme
NTP	National Toxicology Program
QSAR	Quantitative structure-activity relationship
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL	Short term exposure limit
TWA	Time Weighted Average

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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