

SAFETY DATA SHEET

M-Bond 600 Adhesive

ACCORDING TO: CODE OF PRACTICE FOR THE PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS (SAFE WORK AUSTRALIA, 2020) & GHS 7

www.vpgsensors.com

Date of issue: 24/02/2023
Date of First Issue: 27/09/2021
Version: 2.0

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier	
Product name	M-Bond 600 Adhesive
CAS No.	Not applicable - Mixture
1.2 Recommended use of the chemical and restrictions on use	
Identified Use(s)	Adhesive
Uses advised against	Anything other than the above.
1.3 Details of the supplier	
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
Importer/Distributor name, address and telephone number	
Name	
Company Address	
Telephone	
1.4 Emergency Phone No.	
Emergency Phone No.	1-800-424-9300 (24 hours) 61-290372994 (for spills and releases) CHEMTRAC (24 hours)
Languages spoken	English

SECTION 2: HAZARD 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 2; H225 Skin corrosion/irritation - Category 2; H315 Skin sensitization - Category 1; H317 Serious eye damage/ Eye Irritation - Category 2A; H319 Specific target organ toxicity - Single exposure - Category 3; H335 Carcinogenicity - Category 2; H351 Hazardous to the aquatic environment, Chronic - Category 2; H411

2.2 GHS label elements, including precautionary statements	
Product name	M-Bond 600 Adhesive
Hazard Pictogram(s)	 Flame  Health hazard  Exclamation mark  Environmental
Signal Word(s)	DANGER
Hazard Statement(s)	H225: Highly flammable liquid and vapour. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

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H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H411: Toxic 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.
P233: Keep container tightly closed.
P235: Keep cool.
P273: Avoid release to the environment.
P280: Wear protective gloves and eye/face protection.
P370+P378: In case of fire: Use carbon dioxide, dry chemical, foam or waterspray to extinguish.

2.3 Other hazards which do not result in classification AUH019: May form explosive peroxides.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable.

3.2 Mixtures

GHS Classification

Chemical identity of the substance	Common name(s), synonym(s) of the substance	%W/W	CAS No.	EC No.	Hazard classification
Tetrahydrofuran	-	45 – 55	109-99-9	203-726-8	Flammable Liquid - Category 2; H225 Skin corrosion/irritation - Category 2; H315 Eye Damage/Irritation - Category 2A; H319 Specific target organ toxicity — single exposure - Category 3; H335 Carcinogenic – Category 2; H351 AUH019
Phenol, polymer with formaldehyde, glycidyl ether	-	30 – 40	28064-14-4	608-164-0	Skin corrosion/irritation - Category 2; H315 Skin sensitization – Category 1; H317 Eye Damage/Irritation - Category 2A; H319 Hazardous to the aquatic environment, Chronic, Category 2; H411
Ethyl methyl ketone	Butanone; 2-Butanone; Methylethylketone; (MEK)	12 –18	78-93-3	201-159-0	Flammable Liquid - Category 2; H225 Eye Damage/Irritation - Category 2A; H319 Specific target organ toxicity — single exposure - Category 3; H335 Specific target organ toxicity — single exposure – Category 3; H336 AUH066

For full text of H phrases see section 16.

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SECTION 4: FIRST AID MEASURES



4.1 Description of necessary first-aid measures

Self-protection of the first aider

Do not breathe vapour. Wear suitable protective clothing. 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.

Skin contact

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash occurs: 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.

Ingestion

IF SWALLOWED: Rinse mouth. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms/effects, acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

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

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

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

5.2 Specific hazards arising from the chemical

Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon dioxide and Carbon monoxide. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Sealed containers may rupture explosively if hot.

5.3 Special protective actions for fire-fighters

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

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Ensure suitable personal protection (including respiratory protection) during removal of spillages. Contain spillages. Use non-sparking equipment when picking up flammable spill. Use waterspray to 'knock down' vapour. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do NOT absorb in saw-dust or other combustible absorbents. 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.

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6.4 Reference to other sections

See Section: 8,13

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe vapour. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.
7.2	Conditions for safe storage, including any incompatibilities	Ground/bond container and receiving equipment. 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 away from direct sunlight.
	Storage temperature	Ambient.
	Storage measures	Stable under normal conditions.
	Incompatible materials	Keep away from: Oxidizing agents, Corrosive Substances, Reducing agent, Strong Acids and Alkalies.
7.3	Specific end use(s)	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/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
Methyl ethyl ketone (MEK)	MEK 2-Butanone	78-93-3	150	445	300	890	-	-	-
Tetrahydrofuran	-	109-99-9	100	295	-	-	(1)	-	-

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

8.1.2 Biological limit value

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Ethyl methyl ketone	78-93-3	Ethyl methyl ketone in urine	2 mg/L	End of shift	Ns

Source: 2021 ACGIH Biological Exposure Indices (BEIs)

Ns – Nonspecific

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust recommended. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Eyewash bottles should be available.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be laundered before reuse. Do not eat, drink or smoke at the work place.

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.

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Eye/ face protection



Wear eye protection with side protection (EN166). Wear protective eye glasses for protection against liquid splashes. Recommended: Safety spectacles/goggles/full face shield

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Neoprene.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. Select a filter suitable for organic gases and vapours. Recommended: EN143, Filter type A.

Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

9.1 Basic physical and chemical properties

Physical state	Liquid
Colour	Almost colourless
Odour	Not established.
Melting point/freezing point	66°C
Boiling point or initial boiling point and boiling range	-214°C
Flammability	Highly flammable liquid and vapour.
Lower and upper explosion limit/flammability limit	Flammable Limits (Lower) (%v/v): 1.8 Flammable Limits (Upper) (%v/v): 11.8
Flash point	-14 °C (Mixture)
Auto-ignition temperature	480°C (EU Method A.15)
Decomposition temperature	320 °C
pH	No data available
Kinematic viscosity	No data available
Solubility	Water: >50%
Partition coefficient n-octanol/water (log value)	24 µg/L In Water (EU Method A.6)
Vapour pressure	129 (mmHg) @ 20°C
Density and/or relative density	0.9 (H ₂ O = 1)
Relative vapour density	2.4 (Air = 1)
Particle characteristics	Not applicable (Liquid)

9.2 Other information

Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Volatile Organic Compound Content	VOC 598 g/L
Evaporation rate	8 (BuAc = 1)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

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

10.2 Chemical stability

Stable under normal conditions.

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10.3 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.
10.4 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.
10.5 Incompatible materials	Oxidizing agents, Corrosive Substances, Reducing agent, Strong Acids and Alkalies.
10.6 Hazardous decomposition products	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide, Phenolic and Explosive Peroxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LD50: >300 - ≤2000 mg/kg bw/day.
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20 mg/l.
Acute toxicity - Dermal	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LD50 >2000 mg/kg bw/day.
Skin corrosion/irritation	Mixture: Skin corrosion/irritation - Category 2; H315: Causes skin irritation. Tetrahydrofuran Skin corrosion/irritation - Category 2; H315: Causes skin irritation. Hazardous Chemical Information System (HCIS)
Phenol, polymer with formaldehyde, glycidyl ether	Skin corrosion/irritation - Category 2; H315: Causes skin irritation. EU classification and labelling inventory > 1200 Notifiers
Ethyl methyl ketone	AUH066: Repeated exposure may cause skin dryness or cracking. Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis. (Smith R & Mayers MR, 1944) Hazardous Chemical Information System (HCIS)
Serious eye damage/irritation	Mixture: Serious eye damage/ Eye Irritation - Category 2A; H319: Causes serious eye irritation. Tetrahydrofuran Serious eye damage/ Eye Irritation - Category 2A; H319: Causes serious eye irritation. Hazardous Chemical Information System (HCIS)
Phenol, polymer with formaldehyde, glycidyl ether	Tetrahydrofuran caused moderate to severe eye irritation in rabbits, which were not reversible by 14 days. (EU Harmonised Classification / ECHA registration dossier) Serious eye damage/ Eye Irritation - Category 2A; H319: Causes serious eye irritation. Hazardous Chemical Information System (HCIS)
Ethyl methyl ketone	Serious eye damage/ Eye Irritation - Category 2A; H319: Causes serious eye irritation. EU classification and labelling inventory >1200 Notifiers
Respiratory or skin sensitisation	Serious eye damage/ Eye Irritation - Category 2A; H319: Causes serious eye irritation. Test Result: Irritating to eyes. (OECD 405) ECHA Registration Endpoint summary Mixture: Skin sensitization - Category; H317: May cause an allergic skin reaction.
Phenol, polymer with formaldehyde, glycidyl ether	Skin sensitization - Category; H317: May cause an allergic skin reaction. EU classification and labelling inventory >1200 Notifiers
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
Carcinogenicity	Mixture: Carcinogenicity - Category 2; H351: Suspected of causing cancer. Carcinogenicity - Category 2; H351: Suspected of causing cancer. Hazardous Chemical Information System (HCIS)
Tetrahydrofuran	Result: positive - Adverse effects observed carcinogenic effect (Mouse) EU Harmonised Classification / ECHA registration dossier
Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
STOT - single exposure	Mixture: STOT SE 3: H335: May cause respiratory irritation.

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	Tetrahydrofuran	Specific target organ toxicity — single exposure, Category 3; H335: May cause respiratory irritation.
	Ethyl methyl ketone	Hazardous Chemical Information System (HCIS) Rats at all dose levels: gait and/or posture abnormalities. Higher dose groups some rats were comatose or prostrate within a few hours of dosing, with some animals being unconscious for 24 hours. (OECD 423) ECHA registration dossier Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met.
STOT - repeated exposure		
Aspiration hazard		
Information on likely routes of exposure		
Inhalation		Unlikely – accidental exposure
Ingestion		Possible – accidental exposure
Skin contact		Possible – accidental exposure
Eye contact		Possible – accidental exposure
Symptoms related to the physical, chemical and toxicological characteristics		not applicable
Delayed and immediate effects and also chronic affects from short and long term exposure		Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.
Numerical measures of toxicity (such as acute toxicity estimates)		None Known
Interactive effects		None Known
11.2 Other information		None Known
NTP Report on Carcinogens		No components listed.
IARC Monographs		Tetrahydrofuran: Group 2B

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity		Mixture: Hazardous to the aquatic environment, Chronic, Category 2; H411: Toxic to aquatic life with long lasting effects. Estimated Mixture LC50 >1 - ≤ 10 mg/l (Fish)
	Phenol, polymer with formaldehyde, glycidyl ether	Hazardous to the aquatic environment - Chronic - Category 2 H411: Toxic to aquatic life with long lasting effects. EU classification and labelling inventory >1200 Notifiers
12.2 Persistence and degradability	Tetrahydrofuran	No data for the mixture as a whole. Inherently Biodegradable Degradation in water (28 days): 39% (Van Ginkel et al. 1992)
	Phenol, polymer with formaldehyde, glycidyl ether	No data available
	Ethyl methyl ketone	Readily biodegradable. (28 Days) (OECD 301 F)
12.3 Bioaccumulative potential	Tetrahydrofuran	No data for the mixture as a whole. No data
	Phenol, polymer with formaldehyde, glycidyl ether	The substance has low potential for bioaccumulation. EU ECHA registration dossier
	Ethyl methyl ketone	Low bioaccumulative potential EU ECHA Registration Endpoint summary
12.4 Mobility in soil	Tetrahydrofuran	No data for the mixture as a whole. Test not required. Low Partition coefficient: n-octanol/water EU ECHA Registration Endpoint summary
	Phenol, polymer with formaldehyde, glycidyl ether	No data available
	Ethyl methyl ketone	The substance is predicted to have high mobility in soil. EU ECHA Registration Endpoint summary
12.5 Other adverse effects		None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Safe handling and disposal methods	Dispose of this material and its container as hazardous waste. Send after pre-treatment to an appropriate hazardous waste incinerator facility according to legislation. Containers of this material may be hazardous when empty since they retain product residue. Dispose of contents in accordance with local, state or national legislation.
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SECTION 14: TRANSPORT INFORMATION

	ADR/RID/ADG	IMDG/ADN	IATA/ICAO
14.1	UN number	UN 1133	UN 1133
14.2	UN proper shipping name	ADHESIVES (Contains: Flammable liquid)	ADHESIVES (Contains: Flammable liquid)
14.3	Transport hazard class(es)	3	3
14.4	Packing group	II	II
14.5	Environmental hazards	ENVIRONMENTALLY HAZARDOUS	CLASSIFIED AS A MARINE POLLUTANT. HAZARDOUS
14.6	Special precautions for user	See Section: 2	
14.7	Transport in bulk according to IMO instruments Hazchem code	Not applicable ●3YE(3)	

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations specific for the product in question
15.2	International regulations
	Montreal Protocol / Stockholm Convention / Rotterdam Convention / Basel Convention / MARPOL IARC Monographs
15.3	National regulations
	Australian Inventory of Chemical Substances
	NICNAS - Priority Existing Chemicals
	NICNAS - IMAP Framework
	NICNAS - High Volume Industrial Chemical List
	National Pollutant Inventory
	The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: V2.0 - Updated version and date

Version	2.0
Revision date	24/02/2023
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References:

EU Harmonised Classification(s) for Tetrahydrofuran (CAS No. 109-99-9) and Methyl ethyl ketone (CAS No. 78-93-3).

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Existing ECHA registration(s) for Tetrahydrofuran (CAS No. 109-99-9) and Methyl ethyl ketone (CAS No. 78-93-3).
EU classification and labelling inventory for Polyglycidyl Ether of Phenol-Formaldehyde (CAS No. 28064-14-4)
Australia Hazardous Chemical Information System (HCIS)

Literature reference

1. Smith R & Mayers MR, 1944, Study of poisoning and fire hazards of butanone and acetone, Industrial Hygiene: 23, 174-176

GHS Classification	Classification Procedure
Flammable liquid - Category 2	Flash Point [Open cup] Test Result/ Boiling Point (°C)
Serious eye damage/ Eye Irritation - Category 2A	Threshold Calculation
Skin corrosion/irritation - Category 2	Threshold Calculation
Skin sensitization - Category 1	Threshold Calculation
Specific target organ toxicity - Single exposure- Category 3	Threshold Calculation
Carcinogenicity - Category 2; H351	Threshold Calculation
Hazardous to the aquatic environment - Chronic - Category 3	Summation Calculation

This Safety Data Sheet was prepared in accordance with Code Of Practice For The Preparation Of Safety Data Sheets For Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Legend

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

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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