

SAFETY DATA SHEET

Revision: 1.0 Date: 08.05.2014

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010



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M-Bond GA-61 Part B

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

1.1 Product identifier	
Product Name	M-Bond GA-61 Part B
Chemical Name	Mixture
CAS No.	Mixture
EINECS No.	Mixture
REACH Registration No.	None assigned.
1.2 Recommended use of the chemical and restrictions on use	
Identified Use(s)	Adhesives.
Uses Advised Against	None.
1.3 Supplier's details	
Company Identification	VISHAY MEASUREMENTS GROUP UK LTD Stroudley Road Basingstoke Hampshire RG24 8FW United Kingdom
Telephone	+44 (0) 1256 462131
Fax	+44 (0) 1256 471441
E-Mail (competent person)	mm.uk@vishaypg.com
1.4 Emergency Phone No.	(00-1) 703-527-3887 CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1 Directive 67/548/EEC & Directive 1999/45/EC	Xi; R41 R42 R43
2.2 Label elements	
Product Name	GHS Classification M-Bond GA-61 Part B
Hazard Symbol	 Xi/Xn
Risk Phrases	R41: Risk of serious damage to eyes. R42/43: May cause sensitization by inhalation and skin contact.
Safety Phrases	S22: Do not breathe dust. S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other hazards

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Substances in preparations / mixtures

3.2 Mixtures

GHS Classification

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
benzene-1,2:4,5-tetracarboxylic dianhydride	60 – 90	89-32-7	201-898-9	Skin Sens. 1; H317 Eye Dam. 1; H318 Resp. Sens. 1; H334
Talc	10 - 30	14807-96-6	238-877-9	Substance with a Community workplace exposure limit.

Directive 67/548/EEC & Directive 1999/45/EC

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4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

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 or doctor/physician.

Skin Contact

IF ON SKIN (or hair): Rinse skin immediately with plenty of water for 15-20 minutes. Take off contaminated clothing and wash before reuse. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact

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

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Drink two glasses of water. Do not induce vomiting. Call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Skin sensitisation has been reported in humans. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes burns to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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5. SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable Extinguishing Media: Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Unsuitable extinguishing Media: Do not use water jet.
- 5.2 Special hazards arising from the substance or mixture**
May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide.
- 5.3 Advice 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.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear protective gloves/protective clothing/eye protection/face protection.
- 6.2 Environmental precautions**
Do not allow to enter drains, sewers or watercourses.
- 6.3 Methods and material for containment and cleaning up**
Sweep up spilled substance but avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste.
- 6.4 Reference to other sections**
See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Do not breathe dust. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Remove contaminated clothing and wash clothing before reuse.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition and direct sunlight.
Storage temperature: Ideal storage temperature is (°C): <50°C
Storage life: Stable under normal conditions.
Protect from moisture.
Incompatible materials: Keep away from: Flammable liquid, Reducing agent, Oxidizing agents, Corrosive Substances, Alkalis
- 7.3 Specific end use(s)**
Adhesives.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Talc, respirable dust	14807-96-6	-	1	-	-	WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value**
Not established.
- 8.1.3 PNECs and DNELs**
Not established.
- 8.2 Exposure controls**
8.2.1 Appropriate engineering controls
Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

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

Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes.

Eye/face protection

Wear eye protection with side protection (EN166).



Skin protection

Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Unsuitable gloves materials



Respiratory protection

Atmospheric levels should be controlled in compliance with the occupational exposure limit. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.



Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	White / Pale brown Powder
Odour	Odourless
Odour Threshold	Not available.
pH	Not established.
Melting Point/Freezing Point	Not established.
Initial boiling point and boiling range	>400°C (Mixture)
Flash point	>93°C (Mixture)
Evaporation Rate	Not established.
Flammability (solid, gas)	Not established.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not established.
Vapour density	Not established.
Relative density	1.81 g/cm ³ (H ₂ O = 1) (Mixture)
Solubility(ies)	Slightly soluble in: Water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not oxidising.

9.2 Other information

None.

10. 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	Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Do not store and transport with oxidizers, (acids) (and bases), etc.
10.5 Incompatible materials	Flammable liquid, Reducing agent, Oxidizing agents, Corrosive Substances, Alkalis and Acids.
10.6 Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide.

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11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity	
Ingestion	Not classified.
Inhalation	Resp. Sens. 1; May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Contact	Skin Sens. 1; May cause sensitization by skin contact.
Eye Contact	Causes serious eye damage.
Irritation	Not classified.
Corrosivity	Eye Dam. 1; Causes serious eye damage.
Sensitisation	Skin Sens. 1; Skin sensitisation has been reported in humans.
Repeated dose toxicity	Not classified.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	Not classified.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Not classified as a Marine Pollutant.
12.2 Persistence and degradability	Readily biodegradable.
12.3 Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4 Mobility in soil	The product is predicted to have high mobility in soil. (Water Soluble)
12.5 Results of PBT and VPVB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	This material and its container must be disposed of as hazardous waste. (2001/118EC). Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation.
13.2 Additional Information	Dispose of contents in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

	ADR/RID / IMDG / IATA
14.1 UN number	Not applicable.
14.2 Proper Shipping Name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not classified as a Marine Pollutant.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
14.8 Additional Information	None.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Authorisations and/or Restrictions On Use	None.
15.1.2 National regulations	None known.
15.2 Chemical Safety Assessment	Not available.

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16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS), Existing ECHA registration(s) for benzene-1,2,4,5-tetracarboxylic acid (CAS# 89-05-4) and Bisphenol A (CAS# 80-05-7) and Harmonised Classification benzene-1,2:4,5-tetracarboxylic dianhydride (CAS# 89-32-7).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Sens. 1; H317	Harmonised Classification
Eye Dam. 1; H318	Harmonised Classification
Resp. Sens. 1; H334	Harmonised Classification

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development

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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Annex to the extended Safety Data Sheet (eSDS)

No information available.