M-BOND GA-61 PART B



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Date of issue:06/01/2023 Date of First Issue: 20/03/2012

Version 3.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

1.1 Product identifier

Product Name M-Bond GA-61
Product Code Not applicable
Unique Formula Identifier (UFI) Not applicable

Nanoform The product does not contain nanoparticles.

1.2 Relevant identified uses of the substance or mixture

and uses advised against

Identified Use(s) PC14 Metal surface treatment products, including galvanic and electroplating

products

Uses Advised Against For professional users only.

1.3 Details of the supplier of the safety data sheet

Company Identification VISHAY MEASUREMENTS GROUP GMBH

Tatschenweg 1 74078 Heilbronn Deutschland

 Telephone
 +49 (0) 7131 39099-0

 Fax
 +49 (0) 7131 39099-229

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

1.4 Emergency telephone number

National Poisons Information Service (United Kingdom) +44 (0) 3448 920111 24 hr. emergency phone number

Healthcare Professionals ONLY

NHS 24 111 Members of Public Emergency Phone No. (00-1) 703-527-3887 CHEMTREC (24 hours)

Languages spoken All official European languages.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) Skin Sens. 1; H317

Eye Dam. 1; H318 Resp. Sens. 1; H334

2.2 Label elements According to Regulation (EC) No. 1272/2008 (CLP)

Product Name M-Bond GA-61

Hazard Pictogram(s)





Signal Word(s) DANGER

Contains: 1,2,4,5-Benzenetetracarboxylic dianhydride

Hazard Statement(s) H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Precautionary Statement(s) P260: Do not breathe vapour.

P261: Avoid breathing mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER/doctor.

Supplemental information None Known

2.3 Other hazards May form explosible dust clouds in air. Contact with water or moist air causes

production of opaque and corrosive fumes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable.

3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Benzene-1,2:4,5- tetracarboxylic dianhydride	60 - <90	89-32-7	201-898-9	Not yet assigned in the supply chain	Skin Sens. 1; H317 Eye Dam. 1; H318 Resp. Sens. 1; H334

Note: For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe dusts or mists. Avoid all contact. Avoid exposure during pregnancy.

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 breathing is laboured, oxygen should be administered by qualified personnel. If breathing has stopped, apply artificial respiration.

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.

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. Obtain prompt consultation, preferably from an ophthalmologist. Continue irrigation until medical attention can be obtained.

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4.2 Most important symptoms and effects, both acute and

4.3 Indication of any immediate medical attention and special treatment needed

IF SWALLOWED:Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. If exposed or concerned: Get medical attention/advice.

May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Treat symptomatically.

IF INHALED: Due to possible delayed effect of poisoning and for safety reasons, they should be kept under medical observation for at least 48 hours.

IF IN EYES: Chemical eye burns may require extended irrigation.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Ingestion

Suitable Extinguishing media

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

5.3 Advice for fire-fighters

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

Do not use water jet. Direct water jet may spread the fire. Avoid dust generation Finely dispersed particles form explosive mixtures with air.

Decomposes in a fire giving off toxic fumes: Nitrogen oxides, Carbon dioxide and Carbon monoxide. Contact with water or moist air causes production of opaque and corrosive fumes. May form explosible dust clouds in air.

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Avoid dust generation Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation In case of leakage, eliminate all ignition sources. Avoid breathing dust. Avoid contact with skin, eyes or clothing. In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required. See Section: 8.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Stop leak if safe to do so. Ensure suitable personal protection during removal of spillages. Vacuum spilled material. Use non-sparking tools. Avoid dust generation. Do not use compressed air for cleaning purposes. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete.

Reference to other sections See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

6.4

7.3

Ensure adequate ventilation Avoid contact with skin, eyes or clothing. Avoid breathing dust. Use personal protective equipment as required. See Section: 8. Avoid dust generation. Do not allow dust to accumulate on surfaces and equipment. Use non-dispersive workplace cleaning (no compressed air / high pressure cleaners). Do not use in confined spaces. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned. Protect from moisture.

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and

ignition sources. Keep away from heat and direct sunlight. Protect from moisture.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Storage life

Incompatible materials

Stable under normal conditions

Ambient <50℃

Keep away from: Acids, strong bases, Flammable liquids, Reducing agents,

Oxidizing agents, Corrosive Substances and Alkalis.

Specific end use(s) See Section: 1.2.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1 Control parameters8.1.1 Occupational Exposure Limits

United Kingdom

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Talc, respirable dust	14807-96-6	1	1	-	-	-

Source: UK WEL: Workplace Exposure Limit (UK HSE EH40)

Ireland

SUBSTANCE	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
		ppm	mg/m³	ppm	mg/m³	
Talc						
Total inhalable dust	14807-96-6	-	10	-	-	-
respirable dust		-	0.8	-	-	-

Source: 2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 – 2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority

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 or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

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

General hygiene measures for the handling of chemicals are applicable. Avoid all contact. Avoid breathing vapours. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. 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.

Eye/ face protection



Skin protection



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

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: PVC / Nitrile rubber.

Body protection:

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

Use only in well-ventilated areas. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Respiratory protection



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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

9.1 Information on basic physical and chemical properties

Physical state Powder
Colour White/ Pale brown

Odour Not established Melting point and freezing point Not established

Boiling point or initial boiling point and boiling range >400 ℃

Flammability Not established

Lower and upper explosion limit or lower and upper

Not established

flammability limit

Flash point >93℃

Auto-ignition temperature

Decomposition temperature

pH

Not established

Not established

Not established

Kinematic viscosity > 22 mm2/s @104 ℉ (40 ℃)

Solubility Slightly soluble in: Water

Partition coefficient: n-octanol/water (log value) Not established Vapour pressure Not established Density and/or relative density 1.81 (H2O = 1) @ 25° C

Relative vapour density

Not established
Particle characteristics

Not established

9.2 Other information

Explosive properties Not explosive May form explosible dust clouds in air.

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

May form explosible dust clouds in air. Contact with water or moist air causes

production of opaque and corrosive fumes.

10.4 Conditions to avoid Keep away from heat, sources of ignition and direct sunlight.

10.5 Incompatible materials Keep away from: Acids, strong bases, Flammable liquids, Reducing agents,

Oxidizing agents, Corrosive Substances and Alkalis.

10.6 Hazardous decomposition product(s) Decomposes in a fire giving off toxic fumes: Nitrogen oxides, Carbon dioxide and

Carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Skin Contact

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

Acute Toxicity Estimate Mixture Calculation: Estimated Estimated LD50 > 2000

mg/kg bw/day

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

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 5 mg/l (dust/mist) Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg

bw/day

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Skin corrosion/irritation Mixture: Based upon the available data, the classification criteria are not met.

Serious eye damage/irritation Mixture: Eye Dam. 1; H318: Causes serious eye damage.

Eye Dam. 1; H318: Causes serious eye damage.

Benzene-1,2:4,5-tetracarboxylic dianhydride Result: Causes severe eye damage. OECD 405 (rabbit) (Unnamed

publication, 1975; 2008)

Harmonised Classification; ECHA registration dossier

Respiratory or skin sensitization Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.

Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Skin Sens. 1; H317: May cause an allergic skin reaction.

Mouse local lymph node assay (LLNA) (OECD 429 and EU Method B42) Result: Adverse effects observed (Sensitising) (Unnamed publication, 2009)

Benzene-1,2:4,5-tetracarboxylic dianhydride

Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Result: Adverse effects observed (Sensitising) (Unnamed publication, 1989)

Harmonised Classification; ECHA registration dossier

Germ cell mutagenicity
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: Based upon the available data, the classification criteria are not met.

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

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

11.2 Information on other hazards

12.4

12.7

11.2.1 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

11.2.2 Other information None

SECTION 12: ECOLOGICAL INFORMATION

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

12.2 Persistence and degradability No data for the mixture as a whole.

Readily biodegradable. Read across: Pyromellitic acid PMA

Benzene-1,2:4,5-tetracarboxylic dianhydride 100% degradation in water 28d (OECD 301B)

ECHA registration dossier

12.3 Bioaccumulative potential No data for the mixture as a whole.

The substance has low potential for bioaccumulation. Benzene-1,2:4,5-tetracarboxylic dianhydride Bioconcentration factor (BCF): 1 (pH 1-10 @25℃)

ECHA registration dossier

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

Koc:1 Log Koc:0.155 (OECD 121 and EU Method C.19)

Benzene-1,2:4,5-tetracarboxylic dianhydride Highly Mobile

ECHA registration dossier

12.5 Results of PBT and vPvB assessment
 12.6 Endocrine disrupting properties
 Not classified as PBT or vPvB.
 This product does not contain a

12.6 Endocrine disrupting propertiesThis product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the

criteria.

None known

SECTION 13: DISPOSAL CONSIDERATIONS

Other adverse effects

13.1 Waste treatment methods This material and its container must be disposed of as hazardous waste. Dispose

of wastes in an approved waste disposal facility.

Waste classification according to Directive 2008/98/EC (Waste Framework

Directive): HP4, HP13

13.2 Additional Information Dispose of contents in accordance with local, state or national legislation.

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SECTION 14: TRANSPORT INFORMATION





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Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

		ADR/RID	ADN	IMDG	IATA/ICAO
14.1	UN number or ID number	None assigned			
14.2	UN proper shipping name	None assigned	None assigned	None assigned	None assigned
14.3	Transport hazard class(es)	None assigned	None assigned	None assigned	None assigned
14.4	Packing group	None assigned	None assigned	None assigned	None assigned
14.5	Environmental hazards	Not applicable	Not applicable	Not classified as a Marine Pollutant.	Not applicable
14.6	Special precautions for user	See Section: 2			
14.7	Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	Not applicable	
14.8	Additional information	None			

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the substance or mixture

15.1.1 EU regulations

Use restriction according to REACH annex XVII, no.: Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-

Directive]

Restrictions of occupation:

Not restricted Not applicable

Observe restrictions to employment for juvenils according to the 'juvenile work

protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive

(92/85/EEC) for expectant or nursing mothers.

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of

workers from the risks related to chemical agents at work

15.1.2 National regulations

Germany

To follow:

Water hazard class (WGK)

Water hazard class: 1 (Identification number: 10841)

15.2 Chemical Safety AssessmentA REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS), Harmonised Classification(s) for 1, 2, 4,5-Benzenetetracarboxylic Dianhydride (CAS# 89-32-7),

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

LEGEND

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

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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BCF Bioconcentration factor (BCF)

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL Derived no effect level

EU European Union

EC European Community

ECHA European Chemicals Agency

EN European Standard

IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

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

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

LTEL Long term exposure limit

NOAEC No observed adverse effect concentration
NOEC No Observed Effect Concentration

OECD Organisation for Economic Cooperation and Development

PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA Time Weighted Average STEL Short term exposure limit

vPvB very Persistent and very Bioaccumulative

UK United Kingdom UN United Nations

Hazard classification / Classification code:

Skin Sens. 1; Skin Sensitisation, Category 1 Eye Dam. 1; Eye Damage, Category 1

Resp. Sens. 1; Respiratory Sensitization, Category 1

Hazard Statement(s)

H317: May cause an allergic skin reaction. H318: Causes serious eye damage.

H334: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

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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