

SAFETY DATA SHEET

Version: 4.0
Date of Issue: 26 April 2017
Date of First Issue: 20 March 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 1: IDENTIFICATION

Product identifier used on the label	M-Bond 450 Part A
Other means of identification	Mixture
Recommended use of the chemical and restrictions on use	
Recommended use	Adhesives
Restrictions on use	For professional users only
Details of the supplier of the safety data sheet	
Supplier	VISHAY MEASUREMENTS GROUP, INC.
Address of Supplier	Post Office Box 27777 Raleigh, NC 27611 USA
Telephone	+1 919-365-3800
Fax	+1 919-365-3945
E-Mail (competent person)	mm.us@vishaypg.com
Emergency telephone number	1-800-424-9300 CHEMTREC (24 hours)

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards	Flammable Liquid, Category 2
Health hazards	Eye Irritation, Category 2 Germ cell mutagenicity, Category 2 Reproductive toxicity, Category 1B
Environmental hazards	Not classified.

Hazard Symbol



Signal Word(s)

Danger

Hazard Statement(s)

Highly flammable liquid and vapour.
Causes serious eye irritation.
Suspected of causing genetic defects.
May damage fertility or the unborn child.

Precautionary Statement(s)

Obtain special instructions before use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources and store in a cool, well-ventilated place. No smoking.
Keep container tightly closed.
Wash hands and exposed skin thoroughly after handling.
Wear protective gloves, protective clothing, eye protection and face protection.
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.

Other hazards

Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

Version: 4.0
Date of Issue: 26 April 2017
Date of First Issue: 20 March 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Percent of the mixture consists of ingredient(s) of unknown acute toxicity: 0%

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures Substances in preparations / mixtures

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Tetraphenylethane glycidyl ether	60 - 65	7328-97-4	230-820-6	Germ cell mutagenicity, Category 2.
Ethyl methyl ketone	15 - 18	78-93-3	201-159-0	Flammable Liquid, Category 2 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3
Diacetone alcohol	10 - 15	123-42-2	204-626-7	Flammable Liquid, Category 3 Eye Irritation, Category 2 (SCL: \geq 10%) Specific target organ toxicity — single exposure, Category 3
2-Ethoxyethanol	10 - 15	110-80-5	203-804-1	Flammable Liquid, Category 3 Acute toxicity, Category 4 Acute toxicity, Category 3 Reproductive toxicity, Category 1B
Phenyl Glycidyl Ether	< 0.1	122-60-1	204-557-2	Skin irritation, Category 2 Skin Sensitisation, Category 1 Acute toxicity, Category 4 Specific target organ toxicity — single exposure, Category 3 Germ cell mutagenicity, Category 2 Carcinogen, Category 1B. Hazardous to the aquatic environment, Chronic, Category 3

SECTION 4: FIRST AID MEASURES



Description of 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. Avoid all contact.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. IF exposed or concerned: Get medical advice/attention.

Skin Contact

IF ON SKIN: Remove contaminated clothing and wash affected skin with water. Contaminated clothing should be thoroughly cleaned. If irritation (redness, rash, blistering) develops, get medical 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. Do not induce vomiting. IF exposed or concerned: Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Suspected of causing genetic defects. May damage fertility. May damage the unborn child. Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

Version: 4.0
Date of Issue: 26 April 2017
Date of First Issue: 20 March 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Extinguish preferably with foam, carbon dioxide or dry chemical. Water may be ineffective.

Unsuitable extinguishing Media

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

Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide, Nitrogen oxides, Aldehydes and Acids. May form explosive mixture with air particularly in enclosed spaces. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

Special protective equipment and precautions for fire fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid all contact. Avoid breathing vapours. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Ensure suitable personal protection during removal of spillages. See Section: 8.

Methods and material for containment and cleaning up

Ensure full personal protection (including respiratory protection) during removal of 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 spillage in sawdust or other combustible 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.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid all contact. Do not breathe vapour. In case of inadequate ventilation wear respiratory protection. 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.

Conditions for safe storage, including any incompatibilities

Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Store locked up.

Storage temperature
Incompatible materials

Ambient.
Keep away from: Reducing agents, Oxidizing agents (May cause fire), Corrosive Substances and Alkalis. Can react vigorously with strong Lewis or mineral acids and strong mineral and organic bases, especially primary and secondary aliphatic amines.

SAFETY DATA SHEET

Version: 4.0
 Date of Issue: 26 April 2017
 Date of First Issue: 20 March 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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
Ethyl methyl ketone	78-93-3	200	590	300 [^]	885 [^]	NIOSH
		200 [†]	590	-	-	OSHA
		200	-	300	-	ACGIH
Diacetone alcohol	123-42-2	50	240	-	-	NIOSH
		50	240	-	-	OSHA
		50	-	-	-	ACGIH
2-Ethoxyethanol	110-80-5	0.5	1.8	-	-	NIOSH
		200	740	-	-	OSHA
		5	-	-	-	ACGIH, Sk
Phenyl Glycidyl Ether	122-60-1	-	-	1 [*]	6 [*]	NIOSH
		10	60	-	-	OSHA
		0.1	-	-	-	ACGIH, Sk, Sen, A3

Note: OSHA PELs 1910.1000 TABLE Z-1 / NIOSH RELs / ACGIH TLVs

[^]NIOSH average value of 15 minutes.

^{*}NIOSH ceiling limit value of 15 minutes.

[†]OSHA PELs were vacated on June 30, 1993 to return to the original 1971 limits.

Sk - Can be absorbed through skin.

SEN: Confirmed potential for worker sensitization as a result of dermal contact and/or inhalation exposure, based on weight of scientific evidence.

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histological type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiological studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

The other components listed in Section 3 do not have occupational exposure limits.

Biological Limit Values

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
2-Ethoxyethanol	110-80-5	2-Ethoxyacetic acid in urine	100 mg/g creatinine	End of shift at end of workweek	-

Source: 2015 ACGIH Biological Exposure Indices (BEIs)

Ns - Nonspecific

The other components listed in Section 3 do not have biological exposure indices.

Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Guarantee that the eye flushing systems and safety showers are located close to the working place.

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

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

SAFETY DATA SHEET

Version: 4.0
Date of Issue: 26 April 2017
Date of First Issue: 20 March 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

Eye/face protection



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

Skin protection



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

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

Respiratory protection



Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. Long Term Exposure: A self contained breathing apparatus may be appropriate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Dark Amber Coloured liquid.
Odor	Sweetish ketone odor.
Odor Threshold	Not available.
pH	Not established.
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	Not available.
Flash Point	-6°C [Closed cup]
Evaporation rate (Butyl acetate = 1)	Not available.
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Flammable Limits (Lower) (%v/v): 1.7% Flammable Limits (Upper) (%v/v): 11.4%
Vapour pressure	70 mmHg @ 68°C
Vapour density	2.4 (Air = 1)
Relative density	1.16 g/cm ³ (H ₂ O = 1)
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.

Other information

Volatile Organic Compound Content (%): 37%

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions. Reaction with some curing agents may produce considerable heat.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Highly flammable liquid and vapour. May form explosive mixture with air particularly in enclosed spaces. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials

Keep away from: Reducing agents, Oxidizing agents, Corrosive Substances and Alkalis. Can react vigorously with strong Lewis or mineral acids and strong mineral and organic bases, especially primary and secondary aliphatic amines.

Hazardous decomposition product(s)

May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon

SAFETY DATA SHEET

Version: 4.0
Date of Issue: 26 April 2017
Date of First Issue: 20 March 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

dioxide, Aldehydes and Acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity - Ingestion

Based upon the available data, the classification criteria are not met.
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 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 - Skin Contact

Based upon the available data, the classification criteria are not met.
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

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

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

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

Reproductive toxicity

May damage fertility or the unborn child.

STOT - single exposure

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

STOT - repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

Inhalation

Possible – accidental exposure.

Ingestion

Unlikely – accidental exposure.

Skin Contact

Possible – accidental exposure.

Eye Contact

Possible – accidental exposure.

Early onset symptoms related to exposure

Causes serious irritation to eyes.

Delayed health effects from exposure

Suspected of causing genetic defects. May damage fertility or the unborn child.
Repeated exposure may cause skin dryness or cracking.

Other information

NTP Report on Carcinogens

Not listed.

IARC Monographs

Phenyl Glycidyl Ether (CAS# 122-60-1) - Possibly carcinogenic to humans.

OSHA Designated Carcinogen

Not listed.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Based upon the available data, the classification criteria are not met.
Estimated (96 hour) LC50 (Fish) > 100 mg/l

Persistence and degradability

Part of the components are biodegradable.

Bioaccumulative potential

The product has low potential for bioaccumulation.

Mobility in soil

The product has moderate mobility in soil. (Slightly soluble in: Water)

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Do not release undiluted and unneutralised to the sewer. This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Containers of this material may be hazardous when empty since they retain product residue.

Additional Information

Dispose of contents in accordance with local, state or national regulations.

SAFETY DATA SHEET



Version: 4.0
Date of Issue: 26 April 2017
Date of First Issue: 20 March 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN number	UN 1133	UN 1133	UN 1133
UN proper shipping name	ADHESIVES containing flammable liquid	ADHESIVES containing flammable liquid	ADHESIVES containing flammable liquid
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	Not classified as a Marine Pollutant/Environmentally hazardous substance.	Not classified as a Marine Pollutant/Environmentally hazardous substance.	Not classified as a Marine Pollutant/Environmentally hazardous substance.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not application.		
Special precautions for user	See Section: 2		

SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations

EPCRA Section 313 Toxics Release Inventory (TRI) Program
TSCA (Toxic Substance Control Act)

2-Ethoxyethanol - De Minimis limit: 1%

NIOSH Occupational Carcinogen List
OSHA List of highly hazardous chemicals, toxics and reactives
NTP Report on Carcinogens (RoC) List Not listed.
Poison Prevention Packaging Act

Tetraphenylethane glycidyl ether - Subject to 2,500 lb reporting threshold.
Ethyl methyl ketone - Subject to 25,000 lb reporting threshold.
Diacetone alcohol - Subject to 25,000 lb reporting threshold.
2-Ethoxyethanol - Subject to 2,500 lb reporting threshold.
Phenyl Glycidyl Ether - Subject to 2,500 lb reporting threshold.
Phenyl Glycidyl Ether - Listed.
Not listed.

US State Regulations

California State, Proposition 65 List

California State, Safer Consumer Products Regulations

Maine State, Toxic Chemicals in Children's Products Act

Not listed.
Not listed.

2-Ethoxyethanol - Safe harbor level - MADL: 750 (oral) ug/day, 960 (inhalation) ug/day.
Phenyl Glycidyl Ether - Safe harbor level - NSRL: 5 ug/day.
Tetraphenylethane glycidyl ether - Candidate Chemicals List.
Ethyl methyl ketone - Candidate Chemicals List.
2-Ethoxyethanol - Candidate Chemicals List and Group Member List: Glycol ethers.
Phenyl Glycidyl Ether - Candidate Chemicals List.
Tetraphenylethane glycidyl ether - COC List.
2-Ethoxyethanol - COC List.
Phenyl Glycidyl Ether - COC List.
Ethyl methyl ketone - RTKHSL and SHHSL.
2-Ethoxyethanol - RTKHSL and SHHSL.
Phenyl Glycidyl Ether - RTKHSL and SHHSL.
Ethyl methyl ketone - Hazardous Substances List and the Environmental Hazard List.
2-Ethoxyethanol - Hazardous Substances List and the Environmental Hazard List.

New Jersey State Worker and Community RTK Act

Pennsylvania State, Worker and Community RTK Act

Rhode Island State, Hazardous Substances RTK Act

Phenyl Glycidyl Ether - Hazardous Substances List.
Diacetone alcohol - Hazardous Substances List.
Ethyl methyl ketone - Hazardous Substances List.
Diacetone alcohol - Hazardous Substances List.
2-Ethoxyethanol - Hazardous Substances List.
Phenyl Glycidyl Ether - Hazardous Substances List.

Non-Regional

IARC Monographs, List of Classifications

Phenyl Glycidyl Ether - Group 2B.

SAFETY DATA SHEET

Version: 4.0
Date of Issue: 26 April 2017
Date of First Issue: 20 March 2012

www.vishaypg.com

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: . New SDS Regulation compliant with HazCom 2012 format, all sections have been updated to include new information. Please review SDS with care.

Version 4.0
Revision Date 26 April 2017
Date of First Issue 20 March 2017

References:

Existing Safety Data Sheet (SDS)

EU Data: Harmonised Classification(s) for Ethyl methyl ketone (CAS# 78-93-3), Diacetone alcohol (CAS# 123-42-2) and 2-Ethoxyethanol (CAS# 110-80-5). Existing ECHA registration(s) for Ethyl Methyl ketone (CAS# 78-93-3), Diacetone alcohol (CAS# 123-42-2) and 2-Ethoxyethanol (CAS# 110-80-5), the Classification and Labelling Inventory for Tetraphenylethane glycidyl ether (CAS# 7328-97-4) and <https://www.ec.gc.ca/ese-ees/default.asp?lang=En&n=94530B12-1>

GHS Classification of the substance or mixture	Classification Procedure
Flammable Liquid, Category 2	Flash Point [Closed cup]/ Estimated Boiling Point (°C)
Eye Irritation, Category 2	Threshold Calculation
Germ cell mutagenicity, Category 2	Threshold Calculation
Reproductive toxicity, Category 1B	Threshold Calculation
Repeated exposure may cause skin dryness or cracking.	Harmonised Classification

LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists
BEI: Biological Exposure Indices (ACGIH)
IARC: International Agency for Research on Cancer
Irr: Irritation
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: The Occupational Safety & Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PEL: Permissible exposure limit

REL: Recommended exposure limit
SCL: Specific Concentration Limit
Skin^o: Risk of overexposure via dermal contact
STEL: Short Term Exposure Limit
TLV: Threshold Limit value
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
URT: Upper respiratory tract
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.

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Vishay Precision Group gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Vishay Precision Group accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.