

SAFETY DATA SHEET

Version: 1.0
Date of Issue: 23 March 2018
Date of First Issue: 23 March 2018

www.vishaypg.com

In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)

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

Product identifier

Product Name Barrier WD
Other Means of Identification None

Recommended use and restrictions

Recommended use Strain gauge installation
Restrictions on use For professional users only.

Initial Supplier Identifier

Company Identification VISHAY MEASUREMENTS GROUP, INC.
Post Office Box 27777
Raleigh, NC 27611
USA
Telephone (+1) 800.204.6278
E-Mail (competent person) mm.us@vishaypg.com

Emergency telephone number

Emergency Phone No. 1-800-424-9300 CHEMTREC (24 hours)
Languages spoken English

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015) Not classified as dangerous for supply/use.

Label elements

Hazard Pictogram(s) None assigned.
Signal Word(s) None assigned.
Hazard Statement(s) None assigned.
Precautionary Statement(s) None assigned.
Other hazards None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures

100% Non-hazardous ingredients

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider Use personal protective equipment as required. Ensure adequate ventilation. Do not breathe fumes. Hot/molten product: Avoid contact with heated or molten

SAFETY DATA SHEET

Version: 1.0

Date of Issue: 23 March 2018

Date of First Issue: 23 March 2018

www.vishaypg.com

In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)

Inhalation	product. Molten material can cause severe burns. Contaminated clothing should be laundered before reuse. Unlikely route of exposure. Product is a solid. IF exposed or concerned: Call a POISON CENTER/doctor.
Skin Contact	IF ON SKIN: Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention. Hot/molten product: In the event of burns from the molten liquid, do not attempt to remove adhering material. If hot wax touches skin, drench or immerse the area in cold water to assist cooling. Do not try to remove wax from burn. Do not put ice on the burn. Remove non-sticking garments carefully. DO NOT attempt to remove portions of clothing glued to burnt skin, but cut around them. IF exposed or concerned: Call a POISON CENTER/doctor.
Eye Contact	IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Hot/molten product: The molten form can cause thermal burns if in contact with eyes. If hot product is splashed into the eye, it should be cooled immediately to dissipate heat, under cold running water. Obtain immediate medical attention.
Ingestion	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Drink two glasses of water. Do not give milk or alcoholic beverages. Do not give anything by mouth to an unconscious person. If symptoms develop, obtain medical attention.
Most important symptoms and effects, both acute and delayed Indication of any immediate medical attention and special treatment needed	Repeated exposure may cause skin dryness or cracking. Molten material can cause severe burns. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

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

Unsuitable extinguishing Media

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

Special hazards arising from the substance or mixture

May decompose in a fire giving off toxic fumes. Carbon oxides and traces of incompletely burned carbon compounds.

Special protective equipment and precautions for fire fighters

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

Hot/molten product: Do not direct jets of foam or water on the spilled molten product, as this may cause splattering.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear suitable gloves if prolonged skin contact is likely. Use gloves with insulation for thermal protection, when needed. Eliminate all ignition sources if safe to do so. Avoid contact with heated or molten product. Use personal protective equipment as required. See Section: 8.

Environmental precautions

Avoid release to the environment. Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Sweep spilled substances into containers.

Hot/molten product: Contain spillages. Allow product to cool/solidify and pick up as a solid. Transfer to a container for disposal.

Reference to other sections

See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Wear suitable gloves if prolonged skin contact is likely. Avoid contact with skin, eyes or clothing. Do not breathe fumes. 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.

SAFETY DATA SHEET

Version: 1.0

Date of Issue: 23 March 2018

Date of First Issue: 23 March 2018

www.vishaypg.com

In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)

Conditions for safe storage, including any incompatibilities

Storage temperature

Incompatible materials

Specific end use(s)

Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition and direct sunlight.

Ambient. < 48 °C

Keep away from: Oxidizing agents.

Strain gauge installation

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

Not established.

Biological limit value

Not established.

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved.

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

Keep good industrial hygiene. 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. Avoid contact with heated or molten product. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.

Eye/face protection



Eye protection with side protection.

Recommended: Class 2B goggles

Hot/molten product: Wear suitable eye protection if exposure to the eyes may be possible e.g. due to splashing, working overhead or when the face of the worker needs to be close to the source. If splashing is likely, wear face shield (8-inch minimum).

Skin protection



Hand protection:

Impervious gloves. Use gloves with insulation for thermal protection, when needed. 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



Work in well ventilated zones or use proper respiratory protection. In case of inadequate ventilation wear respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Yellow semi-solid paste

Odour

Mild odour/No odour.

Odour threshold

Not available.

pH

Not established.

Melting point/freezing point

48.9-60°C

Initial boiling point and boiling range

Not available.

Flash point

>202.4°C

SAFETY DATA SHEET

Version: 1.0

Date of Issue: 23 March 2018

Date of First Issue: 23 March 2018

www.vishaypg.com

In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)

Evaporation rate (Water = 1)	Not available.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	<1 (Water=1)
Solubility(ies)	Insoluble (Water)
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

Other information None known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.
Incompatible materials	Keep away from: Oxidizing agents and Acids.
Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Carbon oxides and traces of incompletely burned carbon compounds

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects	
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 (Dust) > 5.0 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	Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitization	Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Based upon the available data, the classification criteria are not met.
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.
Other information	None

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Based upon the available data, the classification criteria are not met. Estimated Mixture LC50 >100 mg/l (Fish)
Persistence and degradability	The product is not biodegradable.
Bioaccumulative potential	No data.
Mobility in soil	The substance may adsorb onto soils and sediments.
Other adverse effects	Not classified as PBT or vPvB.

SAFETY DATA SHEET

Version: 1.0
Date of Issue: 23 March 2018
Date of First Issue: 23 March 2018

www.vishaypg.com

In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of this material and its container as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation.

SECTION 14: TRANSPORT INFORMATION

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

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	Not classified	Not classified	Not classified
14.2 UN proper shipping name	Not classified	Not classified	Not classified
14.3 Transport hazard class(es)	Not classified	Not classified	Not classified
14.4 Packing group	Not classified	Not classified	Not classified
14.5 Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6 Special precautions for user	Not applicable		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	See Section: 2		

SECTION 15: REGULATORY INFORMATION

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

National regulations

CEPA, Domestic Substances List	All chemicals are not listed
CEPA, National Pollutant Release Inventory Non-Regional	All chemicals are not listed
IARC Monographs, List of Classifications	All chemicals are not listed

SECTION 16: OTHER INFORMATION

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

Date of First Issue: 23 March 2018
Date of Issue: 23 March 2018

References:

Existing Safety Data Sheet (SDS).

LEGEND

LTEL: Long Term Exposure Limit	STEL: Short Term Exposure Limit
DNEL: Derived No Effect Level	PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic	vPvB: very Persistent and very Bioaccumulative
ACGIH: American conference of Governmental Industrial Hygiene	BEI: Biological Exposure Indices (ACGIH)
TLV: Threshold Limit Value (ACGIH)	TWA: Time Weighted Average
OSHA = Occupational Safety and Health Administration	NIOSH: National Institute for Occupational Safety and Health Technical Information Center
IARC: International Agency for Research on Cancer	CEPA (Canadian Environmental Protection Act)
VOC: Volatile Organic Compound	EU: European Union

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.