

SAFETY DATA SHEET

Revision: 2.1 Date: 05.11.2016

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




www.vishaypg.com

M-Coat FBT

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

1.1 Product identifier	
Product Name	M-Coat FBT
Chemical Name	Mixture
CAS No.	Mixture
EINECS No.	Mixture
REACH Registration No.	None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified Use(s)	PC1 Adhesives, sealants
Uses Advised Against	None known.
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	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Flam. Sol. 2; H228 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT RE 2; H373
2.1.2 Directive 67/548/EEC & Directive 1999/45/EC	R10: Flammable. Xi; R36: Irritating to eyes. Xi; R38: Irritating to skin. Xn; R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	M-Coat FBT
Hazard Pictogram(s)	  
Signal Word(s)	Warning
Hazard Statement(s)	H228: Flammable solid. H315: Causes skin irritation. H319: Causes serious eye irritation. H373: May cause damage to organs through prolonged or repeated exposure:

SAFETY DATA SHEET

Revision: 2.1 Date: 05.11.2016

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

www.vishaypg.com

Central nervous system, Liver, Kidneys.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260: Do not breathe fume.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314: Get medical advice/attention if you feel unwell.

2.3 Other hazards

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
Xylene	<15	1330-20-7	215-535-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	EC Classification and Risk Phrases
Xylene	<15	1330-20-7	215-535-7	R10: Flammable. Xn; R20/21: Harmful by inhalation and in contact with skin. Xi; R38: Irritating to skin.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Unlikely route of exposure. Mixture is a paste. IF exposed: Remove person to fresh air and keep comfortable for breathing.

Skin Contact

IF ON SKIN: Wash with plenty of water. 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. Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. If eye irritation persists, get medical advice/attention.

Ingestion

Obtain medical attention if symptoms appear or if large quantities have been ingested.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes eye irritation. May cause damage to organs through prolonged or repeated exposure: Central nervous system, Liver, Kidneys.

4.3 Indication of any immediate medical attention and

Unlikely to be required but if necessary treat symptomatically.

SAFETY DATA SHEET

Revision: 2.1 Date: 05.11.2016

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

www.vishaypg.com

special treatment needed

5. SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable Extinguishing media Extinguish preferably with dry chemical, sand, foam or carbon dioxide. Water may be used if no other available and then in copious quantities.
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.
- 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. Shut off leaks if without risk. Eliminate sources of ignition. Avoid breathing vapours. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 6.2 Environmental precautions** Avoid release to the environment. Avoid run off to waterways and sewers.
- 6.3 Methods and material for containment and cleaning up** Clean up spill immediately. Cover with absorbent or contain. Collect and dispose. Transfer to a lidded container for disposal or recovery., or: Sweep spilled substances into containers. Recover or recycle if possible.
- 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. Do not breathe vapour. In case of inadequate ventilation wear respiratory protection. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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. Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Storage temperature Ambient.
Storage life Stable under normal conditions.
Incompatible materials Keep away from oxidising agents.
- 7.3 Specific end use(s)** PC1 Adhesives, sealants

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
Xylene, o-,m-,p- or mixed isomers	1330-20-7	50	220	100	441	WEL, Sk

Note: WEL: Workplace Exposure Limit (UK HSE EH40), Sk - Can be absorbed through skin.

8.1.2 Biological limit value Not established.

8.1.3 PNECs and DNELs Not established.

SAFETY DATA SHEET

Revision: 2.1 Date: 05.11.2016

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

www.vishaypg.com

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.

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.



Respiratory protection

Normally no personal respiratory protection is necessary. In case of inadequate ventilation wear respiratory protection.



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	Black Pastes
Odour	Aromatic.
Odour threshold	Not applicable.
pH	Not established.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not established.
Flash point	Not applicable.
Evaporation rate	0.7 (Xylene)
Flammability (solid, gas)	Flam. Sol. 2
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	3.7 (Xylene)
Relative density	~1.1 g/cm ³ (H ₂ O = 1)
Solubility(ies)	Negligible (Water)
Partition coefficient: n-octanol/water	Not established.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable. Solid.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

Volatile Organic Compound Content: 320 g/L

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Stability and reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Flammable solid. Hazardous polymerisation will not occur.

10.4 Conditions to avoid

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

SAFETY DATA SHEET

Revision: 2.1 Date: 05.11.2016

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

www.vishaypg.com

- 10.5 Incompatible materials Keep away from: Strong Acids and Oxidizing agents
10.6 Hazardous decomposition product(s) May decompose in a fire giving off toxic fumes.

11. SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 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.
- Inhalation Based upon the available data, the classification criteria are not met.
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >20.0 mg/l.
- 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** Skin Irrit. 2: Causes skin irritation.
- Serious eye damage/irritation** Eye Irrit. 2: Causes serious eye irritation.
- 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** STOT RE 2: May cause damage to organs through prolonged or repeated exposure: Kidneys, Liver and Central nervous system.
- Aspiration hazard** Based upon the available data, the classification criteria are not met.
- 11.2 Other information None.

12. SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity Based upon the available data, the classification criteria are not met.
Estimated LC50 (96 hour) > 100 mg/l (Fish)
- 12.2 Persistence and degradability No data
- 12.3 Bioaccumulative potential No data
- 12.4 Mobility in soil The product is predicted to have low mobility in soil. Solubility (Water):
Negligible
- 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 Dispose of this material and its container as hazardous waste (2008/98/EEC).
Dispose of empty containers and wastes safely.
- 13.2 Additional Information None.

14. SECTION 14: TRANSPORT INFORMATION

- ADR/RID / IMDG / IATA**
- 14.1 UN number UN1325
- 14.2 Proper Shipping Name FLAMMABLE SOLID, ORGANIC, N.O.S (Xylene)
- 14.3 Transport hazard class(es) 4.1
- 14.4 Packing group III
- 14.5 Environmental hazards Not classified as a Marine Pollutant.
- 14.6 Special precautions for user See Section: 2
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SAFETY DATA SHEET

Revision: 2.1 Date: 05.11.2016

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

www.vishaypg.com

15. SECTION 15: REGULATORY INFORMATION

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

15.1.1 Authorisations and/or Restrictions On Use

None.

15.1.2 National regulations

See also: Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

15.2 Chemical Safety Assessment

Not available.

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 Xylene (CAS No.1330-20-7)

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam. Sol. 2; H228	Volatile Organic Compound Content
Skin Irrit. 2; H315	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
STOT RE 2; H373	Threshold Calculation

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

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.

Annex to the extended Safety Data Sheet (eSDS)

No information available.

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.