

# SAFETY DATA SHEET

Revision: 4.0 Date: 19 August 2016


ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

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

- 1.1 Product identifier**  
Product Name M-Coat C  
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) Coatings and paints, thinners, paint removers.  
Uses Advised Against None known.
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification VISHAY MEASUREMENTS GROUP UK LTD  
Stroudley Road  
Basingstoke  
Hampshire  
United Kingdom  
RG24 8FW  
Telephone +44 (0) 1256 462131  
Fax +44 (0) 1256 471441  
E-Mail (competent person) mm.uk@vishaypg.com
- 1.4 Emergency telephone number**  
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)** Flam. Liq. 3; H226  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Asp. Tox. 1; H304  
STOT SE 3; H335  
STOT RE 2; H373
- 2.2 Label elements**  
Product Name According to Regulation (EC) No. 1272/2008 (CLP)  
M-Coat C
- Hazard Pictogram(s)  

- Signal Word(s) Danger  
Contains: Xylene, Solvent naphtha (petroleum) and light aliph.
- Hazard Statement(s)  
H226: Flammable liquid and vapour.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H304: May be fatal if swallowed and enters airways.  
H335: May cause respiratory irritation.  
H373: May cause damage to organs through prolonged or repeated exposure.
- Precautionary Statement(s)  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P260: Do not breathe vapour.

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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331: Do NOT induce vomiting.

## 2.3 Other hazards

Contact with water or humid air will form methanol.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances Not applicable.

### 3.2 Mixtures Substances in preparations / 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
Dimethyl Siloxane, Hydroxy-Terminated	< 65	70131-67-8	-	Not yet assigned in the supply chain	Not classified
Xylene	25	1330-20-7	215-535-7	Not yet assigned in the supply chain	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373
Trimethylated Silica	< 25	68909-20-6	272-697-1	Not yet assigned in the supply chain	Not classified
Solvent naphtha (petroleum), light aliph.	10	64742-89-8	265-192-2	Not yet assigned in the supply chain	Asp. Tox. 1; H304*
Trimethoxy(methyl)silane	5 - 10	1185-55-3	214-685-0	Not yet assigned in the supply chain	Flam. Liq. 2; H225

For full text of H/P Statements see section 16.

\*Contains: < 0.1% Benzene

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe vapour. 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 breathing is laboured, oxygen should be administered by qualified personnel. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

IF ON SKIN: Remove contaminated clothing immediately and drench affected skin with plenty of water, then wash with soap and water. Contaminated clothing should be laundered before reuse. 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. If eye irritation persists: Get medical advice/attention.

Ingestion

IF SWALLOWED: Rinse mouth. Do not give milk or alcoholic beverages. Do not give anything by mouth to an unconscious person. Immediately call a POISON

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4.2	<b>Most important symptoms and effects, both acute and delayed</b>	CENTER/doctor. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Product generates methyl alcohol which may cause blindness and damage to nervous system. See Section: 8
4.3	<b>Indication of any immediate medical attention and special treatment needed</b> Notes to a physician:	Treat symptomatically.  IF SWALLOWED: Consider use of charcoal as a slurry (240mL water/30 g charcoal). Usual dose: 25 to 100 g in adults. If determined necessary (and under qualified medical supervision), the stomach should be emptied by gastric lavage with the airway protected by endotracheal intubation.

## SECTION 5: FIREFIGHTING MEASURES

5.1	<b>Extinguishing media</b> Suitable Extinguishing media  Unsuitable extinguishing media	As appropriate for surrounding fire. Extinguishing media: Water spray, dry powder or carbon dioxide. Do not use water jet. Direct water jet may spread the fire.
5.2	<b>Special hazards arising from the substance or mixture</b>	Flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Silicon Dioxide, Silicon Oxide, Carbon oxides and traces of incompletely burned carbon compounds. Product may emit formaldehyde vapour at temperatures above 180°C in the presence of air. Formaldehyde vapour is a suspected carcinogen, toxic by inhalation and irritating to eyes and the respiratory system. Exposure limits should be strictly respected. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Containers may explode when involved in a fire.
5.3	<b>Advice for fire-fighters</b>	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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	<b>Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Stop leak if safe to do so. Avoid all contact. Do not ingest. If swallowed then seek immediate medical assistance. Use personal protective equipment as required. Do not breathe vapour. Ensure adequate ventilation. Remove all ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Remove clothing and wash thoroughly before use. Isolate the area and allow vapours to disperse. In confined spaces, sewers, etc., the vapours may collect to form explosive mixtures with air. The vapour is heavier than air; beware of pits and confined spaces.
6.2	<b>Environmental precautions</b>	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.
6.3	<b>Methods and material for containment and cleaning up</b>	Ensure full personal protection (including respiratory protection) during removal of spillages. Stop leak if safe to do so. Keep upwind. Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete.
6.4	<b>Reference to other sections</b>	See Section: 8, 13

## SECTION 7: HANDLING AND STORAGE

7.1	<b>Precautions for safe handling</b>	Ensure adequate ventilation. Avoid all contact. Do not breathe vapour. Use personal protective equipment as required. See Section: 8. Do not eat, drink or
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- 7.2 **Conditions for safe storage, including any incompatibilities**
- Storage temperature  
Storage life  
Incompatible materials
- 7.3 **Specific end use(s)**
- smoke when using this product. Wash hands before breaks and after work. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with moisture. Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ambient. Keep at temperature not exceeding (°C): 27 Stable under normal conditions. Keep away from: Oxidizing agents. Contact with water or humid air will form methanol. Coatings and paints, thinners, paint removers.

## 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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Xylene, o-,m-,p- or Mixed isomers	1330-20-7	50	221	100	442	EU IOELV
		-	200	-	400	WEL
Methyl alcohol*	67-56-1	200	266	250	333	WEL,Sk

Note: IOELV: Indicative Occupational Exposure Limit Value

WEL: Workplace Exposure Limit (UK HSE EH40).

Sk - Can be absorbed through skin.

\* - Decomposition products, See Section: 4.2

#### 8.1.2 Biological limit value

SUBSTANCE	CAS No.	Biological monitoring guidance value	Sampling Time
Xylene, o-,m-,p- or mixed isomers	1330-20-7	650 mmol methyl hippuric acid/ mol Creatinine	Post shift

Note: Bmgv: Biological monitoring guidance value (UK HSE EH40)

#### 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. Guarantee that the eye flushing systems and safety showers are located close to the working place. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems.

#### 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. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be laundered before reuse. Do not eat, drink or smoke at the work place.

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.

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**Suitable materials:**

Butyl rubber (Minimum thickness: 0.5 mm; breakthrough time  $\geq$  480 min)  
Fluorinated rubber - FKM (Minimum thickness: 0.4 mm; breakthrough time  $\geq$  480 min)

**Body protection:**

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

Respiratory protection



Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. A self contained breathing apparatus may be appropriate.

Thermal hazards

Not applicable.

**8.2.3 Environmental Exposure Controls**

Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

Appearance	Milky white / Transparent Liquid.
Odour	Naphthalene odour.
Odour threshold	Not available.
pH	Not established.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	107°C
Flash point	>23°C
Evaporation rate	0.6 (BuAc = 1)
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Flammable Limits (Lower) (%v/v): 0.9 Flammable Limits (Upper) (%v/v): 6.0
Vapour pressure	25 (mmHg @ 20°C)
Vapour density	3.7 (Air = 1)
Relative density	0.85 (H <sub>2</sub> O = 1)
Solubility(ies)	The substance is essentially insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>9.2 Other information</b>	Volatile Organic Compound Content: 300 g/L

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Stability and reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Flammable liquid and vapour. Contact with water or humid air will form methanol.
<b>10.4 Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>10.5 Incompatible materials</b>	Keep away from: Oxidizing agents. Avoid contact with moisture.
<b>10.6 Hazardous decomposition product(s)</b>	This product releases methanol. May decompose in a fire giving off toxic fumes. Silicon Dioxide, Silicon Oxide, Formaldehyde, Carbon oxides and traces of incompletely burned carbon

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compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	All test data taken from existing ECHA registrations for the substances mentioned.
<b>Acute toxicity - Ingestion</b>	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
<b>Acute toxicity - Inhalation</b>	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 40.0 mg/l. LC50 (inhalation) mg/l/4h: 6700 ppm (EU Method B.2)
Xylene: <b>Acute toxicity - Skin Contact</b>	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 4000 mg/kg bw/day.
Xylene:	No data. Harmonised Classification
<b>Skin corrosion/irritation</b>	Skin Irrit. 2: Causes skin irritation.
Xylene:	Test Result: Irritating to skin. (Chatterjee A <i>et al</i> , 2005)
<b>Serious eye damage/irritation</b>	Eye Irrit. 2: Causes serious eye irritation.
Xylene:	Test Result: Irritating to eyes. (Hine CH <i>et al</i> , 1970)
<b>Respiratory or skin sensitization</b>	Based upon the available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based upon the available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based upon the available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - single exposure</b>	STOT SE 3: May cause respiratory irritation.
Xylene:	Test Result: LOAEC 580 ppm (EU Method B.2)
<b>STOT - repeated exposure</b>	STOT RE 2: May cause damage to organs through prolonged or repeated exposure.
Xylene:	Test Result: NOAEL 150 mg/kg bw/day (OECD 408)
<b>Aspiration hazard</b>	Asp. Tox. 1; May be fatal if swallowed and enters airways.
Xylene:	Kinematic Viscosity @ 40 °C 0.623 cST
Solvent naphtha (petroleum), light aliph.:	Kinematic Viscosity @ 80 °C 0.9 cST
<b>11.2 Other information</b>	None.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Based upon the available data, the classification criteria are not met. Estimated Mixture LC50 >100 mg/l (Fish)
<b>12.2 Persistence and degradability</b>	Part of the components are biodegradable.
<b>12.3 Bioaccumulative potential</b>	The product has low potential for bioaccumulation.
<b>12.4 Mobility in soil</b>	The product is predicted to have low mobility in soil (Insoluble in water).
<b>12.5 Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6 Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility.
<b>13.2 Additional Information</b>	Dispose of contents in accordance with local, state or national legislation.

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## SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
14.1 UN number	UN 1993	UN 1993	UN 1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S (Xylene)	FLAMMABLE LIQUID, N.O.S (Xylene)	FLAMMABLE LIQUID, N.O.S (Xylene)
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	Not classified	Not classified as a Marine Pollutant. / Environmentally hazardous substance.	Not classified
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.		
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	
Authorisations and/or Restrictions On Use	Not restricted
CoRAP Substance Evaluation	Xylene: Substance identified for evaluation in 2017 Trimethoxy(methyl)silane: Substance evaluated in 2013; evaluating Member State has proposed to ask the registrants to provide further information
Annex XVII (Restrictions)	Solvent naphtha (petroleum), light aliph.: Entry 28: Restriction on supply of substances and mixtures to the general public, if classified as Carc. 1A or 1B
15.1.2 National regulations	None
15.2 Chemical Safety Assessment	A REACH chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification.

SECTION 1: Updated Section 1.4 Emergency telephone number.

SECTION 2: Updated substance / mixture classification.

SECTION 3: Updated Trimethoxy(methyl)silane Classification. Change None assigned. to Not yet assigned in the supply chain.

SECTION 4: Updated Self-protection of the first aider. Addition of Notes to a physician:. Removal of May cause an allergic skin reaction.

SECTION 6: Updated Personal precautions, protective equipment and emergency procedures. Removal of Dispose of this material and its container as hazardous waste.

SECTION 8: Addition of Methanol WEL, Sk - Can be absorbed through skin. \* - Decomposition products, See Section: 4.2. Addition of Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Suitable materials.

SECTION 10: Addition of This product releases methanol.

SECTION 11: Addition of test data

SECTION 14: Formatting updated

SECTION 15: Addition of CoRAP Substance Evaluation and Annex XVII (Restrictions). Removal of Wassergefährdungsklasse (Germany). Change Not available. to A REACH chemical safety assessment has not been carried out.

SECTION 16: Addition of References: and Hazard classification / Classification code: Updated Classification Procedure

**References:** Existing Safety Data Sheet (SDS), Harmonised Classification(s) for Xylene (CAS No. 1330-20-7) and Solvent naphtha (petroleum), light aliph. (CAS No. 64742-89-8). Existing ECHA registration(s) for Xylene (CAS No. 1330-20-7), Solvent naphtha (petroleum), light aliph. (CAS No. 64742-89-8), Trimethoxy(methyl)silane (CAS No. 1185-55-3 and the Classification and Labelling Inventory for Trimethylated Silica (CAS No. 68909-

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20-6), Trimethoxy(methyl)silane (CAS No. 1185-55-3) and Dimethyl Siloxane, Hydroxy-Terminated (CAS No. 70131-67-8).

[http://www.engineeringtoolbox.com/kinematic-viscosity-d\\_397.html](http://www.engineeringtoolbox.com/kinematic-viscosity-d_397.html)

## Literature References:

1. Chatterjee A, Babu R, Abaghotu E and Singh M, 2005, The effect of occlusive and unocclusive exposure to xylene and benzene on skin irritation and molecular responses in hairless rats, Arch Toxicol 79: 294-301.
2. Hine CH, Zuidema HH, 1970, The toxicological properties of hydrocarbon solvents, Industrial Medicine 39, 215-200.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam. Liq. 3; H226	Boiling Point (°C)/ Estimated Flash Point [Closed cup]
Skin Irrit. 2; H315	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
Asp. Tox. 1; H304	Expert judgement
STOT SE 3; H335	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: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

## Hazard classification / Classification code:

Flam. Liq. 2; Flammable liquid Category 2  
Flam. Liq. 3; Flammable liquid Category 3  
Asp. Tox. 1; Aspiration Toxicity Category 1  
Acute Tox. 4; Acute toxicity Category 4  
Skin Irrit. 2; Skin Irritation Category 2  
Eye Irrit. 2; Eye Irritation Category 2  
Acute Tox. 4; Acute toxicity Category 4  
STOT SE 3; Specific target organ toxicity — single exposure Category 3  
STOT RE 2; Specific target organ toxicity — repeated exposure Category 2

## Hazard Statement(s)

H225: Highly flammable liquid and vapour.  
H226: Flammable liquid and vapour.  
H304: May be fatal if swallowed and enters airways.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H373: May cause damage to organs through prolonged or repeated exposure.

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.





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