SAFETY DATA SHEET

M-Coat A

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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

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

1.1 Product identifier

Product name	M-Coat A
CAS No.	Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	PC9a 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 RG24 8FW United Kingdom
Telephone	+44 (0) 1256 462131
Fax	+44 (0) 1256 471441
E-mail (competent person)	mm.uk@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 The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Flam. Liq. 3; H226
Acute Tox. 4; H332
Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H335
STOT RE 2; H373
Asp. Tox. 1; H304
Aquatic Chronic 3; H412

2.2 Label elements

According to the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Product name	M-Coat A
Contains:	Xylene Ethylbenzene
Hazard Pictogram(s)	
Signal Word(s)	Danger

Hazard Statement(s)	H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H332: Harmful if inhaled. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H373: May cause damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331: Do NOT induce vomiting. P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information	None Known

2.3 Other hazards Not classified as PBT or vPvB. Does not cause endocrine disruption.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Classification: The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Chemical identity of the substance	%W/W	CAS No.	EC No.	UK-REACH Registration No.	Hazard classification
Xylene	50 - 60	1330-20-7	215-535-7	Not yet assigned in the supply chain	Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412
Ethylbenzol	5 - < 10	100-41-4	202-849-4	Not yet assigned in the supply chain	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412

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: 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. Apply artificial respiration if necessary. Call a POISON CENTER/doctor.
	Skin contact	IF ON SKIN (or hair): Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation 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 anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Immediately call a POISON CENTER/doctor.
4.2	**Most important symptoms and effects, both acute and delayed**	May be fatal if swallowed and enters airways. Harmful in contact with skin or if inhaled.. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
4.3	**Indication of any immediate medical attention and special treatment needed**	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	**Extinguishing media**	
	Suitable extinguishing media	Extinguish preferably with foam, carbon dioxide or dry chemical.
	Unsuitable extinguishing media	Water is not generally recommended since it can be ineffective; however, it can be used successfully to cool containers exposed to the fire and to disperse fumes.
5.2	**Special hazards arising from the substance or mixture**	Flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon oxides and traces of incompletely burned carbon compounds. 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.
5.3	**Advice for firefighters**	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	**Personal precautions, protective equipment and emergency procedures**	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.
6.2	**Environmental precautions**	Evacuate the area and keep personnel upwind.
6.3	**Methods and material for containment and cleaning up**	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.
	Large spillages:	Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete.
6.4	**Reference to other sections**	Evacuate the area and keep personnel upwind. Notify police and fire brigade as soon as possible.

See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Avoid all contact. Do not breathe vapour. 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.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original packaging. 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.

storage temperature: Ambient

Incompatible materials: Keep away from: Strong oxidising agents and Polymerisation catalysts, such as peroxy or azo compounds, strong acids, alkalis and oxidising agents.

7.3 Specific end use(s)

See Section: 1.2.

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Xylene	1330-20-7	50	221	100	442	Skin absorption
Ethylbenzene	100-41-4	100	442	200	884	Skin absorption

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

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.
Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Eyewash bottles should be available.

8.2.2 Individual protection measures, such as personal protective equipment

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.

Eye/ face protection

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

Skin protection

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.

Suitable materials:
Fluorinated rubber - FKM (Minimum thickness: 0.4 mm; breakthrough time: ≥ 8hour)

Unsuitable gloves materials:

		Leather gloves. Natural rubber/. Polychloroprene - CR. Nitrile rubber. Butyl rubber. PVC (polyvinyl chloride) **Body protection:** Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
	Respiratory protection 	In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate. A suitable mask with filter type A (EN141 or EN405) 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	Amber Liquid
Odour	Benzene-like Aromatic Odour
Odour threshold	Not available
pH	Not determined
Melting point/freezing point	Not available
Initial boiling point and boiling range	137 ℃
Flash point	26 ℃ [Closed cup]
Evaporation rate	Not determined
Flammability (solid, gas)	not applicable - Liquid
Upper/lower flammability or explosive limits	Flammable Limits (Lower) (%v/v): 1.0 (air) Flammable Limits (Upper) (%v/v): 7.0 (air)
Vapour pressure	>1.1 bar
Vapour density	3.6 (air = 1)
Relative density	1.14 g/cm^3
Solubility(ies)	Insoluble in water
Partition coefficient: n-octanol/water	Not applicable - Mixture
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	<= 20.5 mm²/s (Worst case assumption) (Kinematic viscosity)
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

9.2 Other information

Evaporation rate	0.6 (BuAc=1)
Volatile Organic Compound Content	589 g/L

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**	Flammable liquid and vapour. The vapour may be invisible, heavier than air and spread along ground. May form explosive mixture with air particularly in enclosed spaces. Susceptible to violent exothermic polymerisation, initiated by heating or the presence of catalysts.
10.4	**Conditions to avoid**	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5	**Incompatible materials**	Keep away from: Strong oxidising agents and Polymerisation catalysts, such as peroxy or azo compounds, strong acids, alkalis and oxidising agents.

10.6 Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 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		Mixture: Classified as Acute Tox. 4; H332: Harmful if inhaled.
	Xylene	Classified as Acute Tox. 4; H332: Harmful if inhaled. LC50 (inhalation) mg/l/4h: 6700 ppm (EU Method B.2)
	Ethylbenzol	Classified as Acute Tox. 4; H332: Harmful if inhaled. LC50 (inhalation) mg/l/4h: 4000 ppm (Standard acute method)
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		Mixture: Classified as Skin Irrit. 2; H315: Causes skin irritation.
	Xylene	Classified as Skin Irrit. 2; H315: Causes skin irritation. Test Result: Irritating to skin. (Chatterjee A et al, 2005)
Serious eye damage/irritation		Mixture: Classified as Eye Irrit. 2; H319: Causes serious eye irritation.
	Xylene	Classified as Eye Irrit. 2; H319: Causes serious eye irritation. Test Result: Irritating to eyes. (Hine CH et al, 1970)
Respiratory or skin sensitisation		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		Mixture: Classified as STOT SE 3; H335: May cause respiratory irritation.
	Xylene	Classified as STOT SE 3; H335: May cause respiratory irritation. Test Result: LOAEC 580 ppm (EU Method B.2)
STOT - repeated exposure		Mixture: Classified as STOT RE 2; H373: May cause damage to organs through prolonged or repeated exposure.
	Xylene	Classified as STOT RE 2; H373: May cause damage to organs through prolonged or repeated exposure. Test Result: NOAEL 150 mg/kg bw/day (OECD 408)
Aspiration hazard		Mixture: Classified as Asp. Tox. 1; H304: May be fatal if swallowed and enters airways.
	Xylene	Classified as Asp. Tox. 1; H304: May be fatal if swallowed and enters airways. Kinematic viscosity (40 ℃): 0.623 cST

11.2 Other information

None Known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity		Mixture: Classified as Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.
	Xylene	Classified as Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. LC50: 2,6 mg/L (Oncorhynchus mykiss (Rainbow trout); 96 hours; OECD 203) EC50: 4,36 mg/L (Pseudokirchneriella subcapitata; 72 hours; OECD 201) NOEC: 0,44 mg/L (Pseudokirchneriella subcapitata; 72 hours; OECD 201) Source: ECHA registration dossier
12.2 Persistence and degradability		No data for the mixture as a whole.
	Xylene	Readily biodegradable (according to OECD criteria). Result: 98 % (28 days; OECD 301F) Source: ECHA registration dossier
12.3 Bioaccumulative potential		No data for the mixture as a whole.
	Xylene	Bioaccumulation will not occur Partition coefficient n-octanol/water (log P O/W): 3,12 – 3,2

			Bioconcentration factor (BCF): > 5,5 - < 25,9 Source: ECHA registration dossier
12.4	**Mobility in soil**		No data for the mixture as a whole.
		Xylene	Adsorption to solid soil phase is expected. log Koc: 2,73 (OECD 121) Source: ECHA registration dossier
12.5	**Results of PBT and vPvB assessment**		The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
12.6	**Other adverse effects**		None Known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Do not release undiluted and unneutralised to the sewer. Dispose of contents in accordance with local, state or national legislation. This material and its container must be disposed of as hazardous waste. Containers of this material may be hazardous when empty since they retain product residue.
13.2	**Additional information**	
	Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	HP 3 Flammable HP 4 Irritant — skin irritation and eye damage HP 5 Specific Target Organ Toxicity/Aspiration Toxicity HP 6 Acute toxicity HP 14 Ecotoxic

SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMDG	IATA/ICAO
14.1	**UN number**	UN 1263	UN 1263	UN 1263
14.2	**UN proper shipping name**	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3	**Transport hazard class(es)**	3	3	3
14.4	**Packing group**	III	II	II
14.5	**Environmental hazards**	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6	**Special precautions for user**	See Section: 2		
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable		

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.:	3
	Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]	P5c
	Directive 2010/75/EU on industrial emissions	VOC-value: < 70 %
	Restrictions of occupation	According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
	To follow:	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
	GB regulations	
	Mandatory classification and labelling list	Xylene: Listed Ethylbenzol: Listed
15.1.2	**National regulations**	
	Germany	

	Water hazard class (WGK)	Obviously hazardous to water (WGK 2)
15.2	**Chemical Safety Assessment**	Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: OTHER INFORMATION

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

References:
Existing Safety Data Sheet (SDS).
Harmonised Classification(s) for Xylene (CAS No. 1330-20-7) and Ethylbenzene (CAS No. 100-41-4).
Existing ECHA registration(s) for Xylene (CAS No. 1330-20-7) and Ethylbenzene (CAS No. 100-41-4).
GB: Mandatory classification and labelling list: Xylene (CAS No. 1330-20-7) and Ethylbenzene (CAS No. 100-41-4).

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.

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.
Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Classification of the substance or mixture. The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	**Classification procedure**
Flam. Liq. 3; H226	Flash point [Closed cup] Test Result/ Boiling Point (℃)
Acute Tox. 4; H332	Acute Toxicity Estimate Mixture Calculation
Skin Irrit. 2; H315	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
STOT SE 3; H335	Threshold Calculation
STOT RE 2; H373	Threshold Calculation
Asp. Tox. 1; H304	Worst case assumption / Expert judgement
Aquatic Chronic 3; H412	Summation Calculation

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
ECHA	European Chemicals Agency
EC	European Community
EU	European Union
HSE	Health and Safety Executive
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
OECD	Organisation for Economic Cooperation and Development
GB	Great Britain
EN	European Standard
LTEL	Long term exposure limit
LC50	Lethal concentration; 50 %
EC50	Effect concentration; 50 %
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
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
NOAEC	Lowest observed effect concentration
NOEC	No Observed Effect Concentration
NOAEL	No Observed Adverse Effect Level
UK	United Kingdom
UN	United Nations
VOC	Volatile Organic Compound

Hazard classification / Classification code:	**Hazard Statement(s)**
Flam. Liq. 2; Flammable liquid Category 2	H225: Highly flammable liquid and vapour.
Flam. Liq. 3; Flammable liquid Category 3	H226: Flammable liquid and vapour.
Asp. Tox. 1; Aspiration ToxicityCategory 1	H304: May be fatal if swallowed and enters airways.
Acute Tox. 4; Acute toxicity Category 4	H312: Harmful in contact with skin.
Skin Irrit. 2; Skin Irritation Category 2	H315: Causes skin irritation.
Eye Irrit. 2; eye Irritation Category 2	H319: Causes serious eye irritation.
Acute Tox. 4; Acute toxicity Category 4	H332: Harmful if inhaled.
STOT SE 3; Specific target organ toxicity — single exposure Category 3	H335: May cause respiratory irritation.
STOT RE 2; Specific target organ toxicity — repeated exposure Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3; Aquatic and Terrestrial Ecotoxicity Chronic exposure Category 3	H412: Harmful to aquatic life with long lasting effects.

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) - Not applicable

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