# SAFETY DATA SHEET

Version: 3.4 Date of Issue: 03/27/25 Date of First Issue: 11/05/12

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



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SECTION 1: IDENTIFICATION		
Product identifier used on the label	M-Coat C	
Other means of identification		
Chemical Name	Mixture	
CAS No.	Mixture	
EINECS No.	Mixture	
Recommended use of the chemical and restrictions		
on use		
Recommended use	Coatings and paints, thinners, paint rem	overs.
Restrictions on use	None known.	
Details of the supplier of the safety data sheet		
Supplier	VISHAY MEASUREMENTS GROUP, IN	IC.
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 3 Health hazards Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Eye Irritation, Category 2B Specific target organ toxicity - single exposure, Category 3 (Respiratory tract) Specific target organ toxicity - repeated exposure, Category 2 Environmental hazards Hazardous to the aquatic environment, Acute, Category 2 Hazardous to the aquatic environment, Chronic, Category 3 Label elements Product Name M-Coat C Hazard Symbol Signal Word(s) Danger Hazard Statement(s) Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

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Precautionary Statement(s)	<ul> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Ground and bond container and receiving equipment.</li> <li>Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>Do not breathe vapour.</li> <li>Avoid release to the environment.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>IF SWALLOWED: Immediately call a POISON CENTER/doctor.</li> <li>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>IF exposed or concerned: Get medical advice/attention.</li> <li>Call a POISON CENTER/doctor if you feel unwell.</li> <li>Do NOT induce vomiting.</li> <li>Store in a well-ventilated place. Keep cool.</li> <li>Store locked up.</li> <li>Dispose of contents in accordance with local, state or national legislation.</li> </ul>
Other hazards	None.

# 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
Dimethyl Siloxane, Hydroxy-Terminated	< 65	70131-67-8	615-070-8	Not classified
Xylene	20 - < 30	1330-20-7	215-535-7	Flammable Liquid, Category 3 Aspiration hazard, Category 1 Acute toxicity, Category 4 (Dermal) Acute toxicity, Category 4 (Inhalation) Skin Corrosion/Irritation, Category 2 Eye Irritation, Category 2B Specific target organ toxicity — single exposure, Category 3 (Respiratory tract) Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, Acute, Category 2 Hazardous to the aquatic environment, Chronic, Category 3
Trimethylated Silica	< 25	68909-20-6	272-697-1	Not classified
Trimethoxy(methyl)silane	5 - 10	1185-55-3	214-685-0	Flammable Liquid, Category 2

# **SECTION 4: FIRST AID MEASURES**



Description of first aid measures

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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. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Skin Contact	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. 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
Eye Contact	advice/attention. 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
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 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.
Most important symptoms and effects, both acute and delayed	May be fatal if swallowed and enters airways. Causes skin irritation. Causes 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.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

# **SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing media	
Suitable Extinguishing Media	As appropriate for surrounding fire. Extinguishing media: Water spray, dry powder 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	Flammable liquid and vapour. May decompose in a fire giving off toxic fumes.
mixture	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.
Special protective equipment and precautions 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.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Avoid all contact. Do not breathe vapour. Use personal protective equipment as required. See Section: 8. The vapour is heavier than air; beware of pits and confined spaces.
Methods and material for containment and cleaning up	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. 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. Dispose of this material and its container as hazardous waste.

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# SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Ensure adequate ventilation. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with moisture.
Conditions for safe storage, including any	Keep only in original container. Store in a well-ventilated place. Keep container
incompatibilities	tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage temperature	Ambient. Keep at temperature not exceeding ( $\mathfrak{C}$ ): 27
Incompatible materials	Keep away from: Oxidizing agents. Contact with water or humid air will form methanol.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Xylene, o-,m-,p- or	1330-20-7	100	435	150*	655*	NIOSH
		100	435	-	-	OSHA
		100	-	150	-	ACGIH, A4

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

\*NIOSH 15 minute average values

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

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 Exposure Indices** 

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Xylene	1330-20-7	Methylhippuric acids in urine.	15 g/g Creatinine	End of shift	-

Source: ACGIH: American Conference of Governmental Industrial Hygienists - Biological Exposure Index (BEI) 2019 The other components listed in Section 3 do not have biological exposure indicies.

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.
Individual protection measures, such as personal protective equipment (PPE)	Keep good industrial hygiene. 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	Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection.



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# Skin protection

Respiratory 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. Recommended: Neoprene.

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

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

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Odor Odor Threshold pH Melting Point/Freezing Point Initial boiling point and boiling range Flash Point Evaporation rate (Butyl acetate = 1) Flammability (solid, gas) Upper/lower flammability or explosive limits

Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition Temperature Viscosity

Not established. Not available. Not available. 107℃ >23 ℃ 0.6 (BuAc = 1)Liquid - Not applicable Flammable Limits (Lower) (%v/v): 1.0 (Air) Flammable Limits (Upper) (%v/v): 7.0 (Air) 25 (mmHg @ 20℃) 3.7 (Air = 1) $0.85 (H_2O = 1)$ The substance is essentially insoluble in water. Not available. Not available. Not available. Not available.

Milky white / Transparent Liquid.

Naphthalene odor.

Other information

# SECTION 10: STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid

Incompatible materials Hazardous decomposition product(s) Volatile Organic Compound Content: 300 g/l

Stable under normal conditions.
Stable under normal conditions.
Flammable liquid and vapour. Contact with water or humid air will form methanol.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with moisture.
Keep away from: Oxidizing agents.
May decompose in a fire giving off toxic fumes. Silicon Dioxide, Silicon Oxide, Formaldehyde, Carbon oxides and traces of incompletely burned carbon compounds.

#### 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.

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Acute toxicity - Inhalation	Based on available data, the classification criteria are not met.
	Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l.
Acute toxicity - Skin Contact	ased on available data, the classification criteria are not met.
	Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg
Yelen -	bw/day.
Xyiene	Acute toxicity, Category 4
Skin correcton/irritation	EU Harmoniseu Classification
Yulono	Skin Correction/Irritation, Category 2. Causes Skin Initiation.
Aylelle	Irritant effect on skin. (rat) (Chatterine A et al. 2005)
Serious eve damage/irritation	Mixture: Eve Irritation, Category 2B: Causes eve irritation
Xvlene	Eve Irritation Category 2B
, yiono	ECHA Registration Endpoint summary: Mildly irritating to eves
Respiratory or skin sensitization	Mixture: Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
STOT - single exposure	Mixture: Specific target organ toxicity — single exposure, Category 3: May
	cause respiratory irritation.
Xylene	Specific target organ toxicity - single exposure, Category 3: May cause
	respiratory irritation.
	EU ECHA Registration Endpoint summary: Irritating to eyes, respiratory system
	and skin.
STOT - repeated exposure	Mixture: Specific target organ toxicity — repeated exposure, Category 2; May
	cause damage to organs through prolonged or repeated exposure.
Xylene	Specific target organ toxicity — repeated exposure, Category 2
	Oral: No adverse effect observed – NOAEC: 3000ppm (OECD 408)
	Dermal: Slight/mild irritant – NOAEC: < 413 mg/kg bw Day (OECD 410)
	Inhalation: Adverse effects observed – NOAEC (rat) 3515 mg/m <sup>3</sup> (Carpenter et
Acciention beyond	al. 1975) Misture Assisting beneral October 4. May be fatal if anything the start of
Aspiration hazard	Mixture: Aspiration nazard, Category 1; May be ratal if swallowed and enters
	all ways. This product was conservatively classified under the basis of: Expert judgement
	and high percentage inclusion of components with Aspiration hazard
Xvlene	Aspiration hazard. Category 1
	Dynamic viscosity: $0.74 \text{ mm}^2/\text{s}$ (@20°C)
	Surface tension: 28.7nM
Solvent naphtha (petroleum), light aliph.	Aspiration hazard, Category 1
	EU Harmonised Classification
Information on likely routes of exposure	
Inhalation	Possible – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin Contact	Possible – accidental exposure
Eye Contact	Unlikely – accidental exposure
	Occurrent in the industries of occurrent and industries. Many second instance
Early onset symptoms related to exposure	Gauses skin irritation. Causes serious eye irritation. May cause respiratory
	IIIIduuii.
Delayed health effects from exposure	May cause damage to organs through prolonged or repeated exposure (Affected
	organs: central nervous system liver kidney hearing organs) May be fatal if
	swallowed and enters airways.
Other information	
NTP Report on Carcinogens	Not listed
IARC Monographs	Xylene: Group 3 - Not classifiable as to its carcinogenicity to humans.
OSHA Designated Carcinogen	Not listed

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SECTION 12: ECOLOGICAL INFORMATION	
Toxicity	Mixture: Hazardous to the aquatic environment, Acute, Category 2: Toxic to aquatic life.
	Hazardous to the aquatic environment, Chronic, Category 3: Harmful to aquatic
	life with long lasting effects.
Xylene	Hazardous to the aquatic environment, Acute, Category 2
	Hazardous to the aquatic environment, Chronic, Category 3
	Chronic: LC50 (Algae) mg/l: 0.32 (Unnamed publication, 1978)
Persistence and degradability	No data for the mixture as a whole.
Xylene	Readily biodegradable.
	Water % Degradation: 98% (28 days) (OECD 301 F)
Bioaccumulative potential	No data for the mixture as a whole.
Xylene	The substance has low potential for bioaccumulation.
	BCF: 25.9 (Walsh et al. 1977) (Read across)
Mobility in soil	No data for the mixture as a whole.
Xylene	The substance is predicted to have moderate mobility in soil.
	Log Koc: 2.73 (Hodson et al 1988).
Other adverse effects	No data for the mixture as a whole.

# SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Dispose of contents in accordance with local, state or national legislation.

#### **SECTION 14: TRANSPORT INFORMATION**

UN number UN proper shipping name	<b>ADR/RID</b> UN 1993 FLAMMABLE LIQUID, N.O.S (Xylene)	<b>IMDG</b> UN 1993 FLAMMABLE LIQUID, N.O.S (Xylene)	<b>ICAO/IATA</b> UN 1993 FLAMMABLE LIQUID, N.O.S (Xylene)
Transport hazard class(es) Packing group Environmental hazards	3 III Not classified	3 III Not classified as a Marine Pollutant.	3 III Not classified
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Special precautions for user	See Section: 2 Not applicable.		

# **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislati	on specific for the substance or mixture
US Federal Regulations	
TSCA Inventory	All chemicals listed
TSCA Chemical Data Reporting (CDR) Rule	Xylene: Listed
	Trimethoxy(methyl)silane: Listed
NIOSH Occupational Carcinogen List	All chemicals are not listed
EPCRA Section 313	Xylene: Listed
CWA 307- Toxic	All chemicals are not listed
CERCLA - Hazardous Substances	Xylene: Listed
CWA Section 311 List of Hazardous Substances	Xylene: Listed
CAA Section 112(r) Regulated Chemicals for Accidental	Xylene: Listed
Reease Prevention	
US State Regulations	
Proposition 65 (California)	All chemicals are not listed
Massachusetts, New Jersey, Pennsylvania, Rhode	Xylene: Listed
Island- State Right to Know Lists	

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New York -State Right to Know Lists
Minnesota - State Right to Know Lists
Massachusetts – Toxic Use reduction act

Non-Regional

IARC Monographs, List of Classifications

Xylene: Group 3

Xylene: Listed Xylene: Listed Xylene: Listed

#### **SECTION 16: OTHER INFORMATION**

The following sections have updates indicated by -

Version	3.4
Revision Date	03/27/25
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**References:** Existing Safety Data Sheet (SDS), Harmonised Classification(s) for Xylene (CAS# 1330-20-7) and Solvent naphtha (petroleum), light aliph. (CAS# 64742-89-8). Existing ECHA registration(s) for Xylene (CAS# 1330-20-7), and the Classification and Labelling Inventory for Trimethylated Silica (CAS# 68909-20-6), Trimethoxy(methyl)silane (CAS# 1185-55-3) and Dimethyl Siloxane, Hydroxy-Terminated (CAS# 70131-67-8).

#### 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.
- Carpenter CP, Kinkead ER, Geary DJ, et al. 1975. Petroleum hydrocarbon toxicity studies: V. Animal and human response to vapors of mixed xylenes. Toxicol Appl Pharmacol 33:543-558.
- 3. Walsh, Armstrong, Bartley, Salman and Frank. 1977. Residues of emulsfied xylene in aquatic weed control and their impact on rainbow trout. Appl. Sci. Branch, Eng. Res. Cent. Denver, CO: 15p.
- 4. Hodson J and Williams NA. (1988). The estimation of the adsorption coefficient (Koc) for soils by high performance liquid chromatography. Chemosphere 17, 67-77.
- 5. KOWWIN v1.68. 2011. Results from KOWWIN v1.68. EPIWEB v4.10.
- Sabljic, A, Güsten H, Verhaar H, Hermens J (1995) QSAR modelling of soil sorption. Improvements and systematics of log KOC vs. log KOW correlations. Chemosphere Volume 31, Issues 11–12, December 1995, Pages 4489–4514.

Classification of the substance or mixture	Classification Procedure
Flammable Liquid, Category 3	Expert judgement
Aspiration hazard, Category 1	Expert judgement
Skin Corrosion/Irritation, Category 2	Threshold Calculation
Eye Irritation, Category 2B	Threshold Calculation
Specific target organ toxicity — single exposure, Category 3	Threshold Calculation
(Respiratory tract)	
Specific target organ toxicity — repeated exposure, Category 2	Threshold Calculation
Hazardous to the aquatic environment, Acute, Category 2	Summation Calculation
Hazardous to the aquatic environment, Chronic, Category 3	Summation Calculation

#### LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists **REL:** Recommended exposure limit BEI: Biological Exposure Indices (ACGIH) SCL: Specific Concentration Limit IARC: International Agency for Research on Cancer Skin": Risk of overexposure via dermal contact Irr: Irritation STEL: Short Term Exposure Limit NIOSH: National Institute of Occupational Safety and Health TLV: Threshold Limit value NTP: National Toxicology Program TSCA: Toxic Substance Control Act OSHA: The Occupational Safety & Health Administration TWA: Time Weighted Average PBT: Persistent, Bioaccumulative and Toxic URT: Upper respiratory tract PEL: Permissible exposure limit vPvB: very Persistent and very Bioaccumulative

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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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