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

1.1 Product identifier

Product Name M-Coat A
Chemical Name Mixture
CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned.

1.2 Recommended use of the chemical and restrictions

on use

Identified Use(s) PC9a Coatings and paints, thinners, paint removers

Uses Advised Against None known.

1.3 Supplier's details

Company Identification VISHAY MEASUREMENTS GROUP, INC.

Post Office Box 27777 Raleigh, NC 27611

USA

 Telephone
 919-365-3800

 Fax
 919-365-3945

E-Mail (competent person) mm.us@vishaypg.com

**1.4 Emergency Phone No.** 1-800-424-9300

CHEMTREC

## 2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification

Flam. Liq. 3; H226
Acute Tox. 4; H312
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Acute Tox. 4; H332

STOT SE 3; H335 STOT RE 2; H373

2.2 Label elements

2.1.1

Product Name M-Coat A

Hazard Pictogram(s)







Signal Word(s) Danger

Contains: Xylene and Ethylbenzene

Hazard Statement(s) H226: Flammable liquid and vapour.

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:

Central nervous system, Liver and Kidneys.

Precautionary Statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other

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ignition sources. No smoking. P260: Do not breathe vapour.

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.

P312: Call a POISON CENTER/doctor if you feel unwell.

Additional Information

None.

2.3 Other hazards None.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS** 3.

#### 3.2 **Mixtures**

**GHS** Classification

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Xylene	50 - 60	1330-20-7	215-535-7	None assigned	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332
Oil Modified Polyurethane	30 - 45	-	-	None assigned	STOT SE 3; H335 STOT RE 2; H373 Not classified
Ethylbenzene	< 10	100-41-4	202-849-4	None assigned	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Acute Tox. 4; H332 STOT RE 2; H373 Aquatic Chronic 3; H412

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. H412: Harmful to aquatic life with long lasting effects.

#### **SECTION 4: FIRST AID MEASURES** 4.



## Description of first aid measures

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Inhalation

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.

**Eve 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.

If swallowed, rinse mouth with water (only if the person is conscious). Get Ingestion medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and

delayed

Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure: Central nervous system, Liver and Kidneys.

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4.3 Indication of any immediate medical attention and

special treatment needed

Treat symptomatically.

#### 5. **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.

Fire fighters should wear complete protective clothing including self-contained 5.3 Advice for fire-fighters

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

**Environmental precautions** 

Reference to other sections

6.2

6.3

6.4

7.3

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid breathing vapours. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Ensure suitable personal protection during removal of spillages. See

Section: 8. Take precautionary measures against static discharges.

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. Methods and material for containment and cleaning

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. Dispose of this material and its container as hazardous waste.

See Section: 8, 13

#### 7. **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. Avoid contact with skin, eyes or clothing. 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

Storage temperature

Incompatible materials

Specific end use(s)

Storage life

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.

Stable under normal conditions.

Keep away from: Strong oxidising agents and polymerisation catalysts, such as

peroxy or azo compounds, strong acids, alkalis and oxidising agents.

See Section: 1.2.

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

8.1 **Control parameters** 

8.1.1 **Occupational Exposure Limits** 

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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 mixed isomers	1330-20-7	100	435	150*	655*	NIOSH
Xylene, o-,m-,p- or mixed isomers	1330-20-7	100	435	-	-	OSHA
Ethylbenzene	100-41-4	100	435	125*	545*	NIOSH
Ethylbenzene	100-41-4	100	435	=	-	OSHA

Not established.

Not established.

Note: OSHA 1910.1000 TABLE Z-1 / \*NIOSH 15 minutes average value

8.1.2 **Biological limit value** 

8.1.3 **PNECs and DNELs** 

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.

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

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. 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.

Skin protection

Eye/ face 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.

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

In case of inadequate ventilation wear respiratory protection. Open system(s): Respiratory protection Wear suitable respiratory protective equipment.

8.2.3

Thermal hazards

**Environmental Exposure Controls** 

Not applicable.

Avoid release to the environment.

#### 9. **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 established. Not available. рΗ Melting point/freezing point Not available.

Initial boiling point and boiling range 137°C Flash point 26°C [Closed cup]

Evaporation rate 0.6 (BuAc=1) Flammability (solid, gas) Liquid - Not applicable

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

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Relative density 1.14 g/cm3 Insoluble in water. Solubility(ies) Partition coefficient: n-octanol/water Not available. Not available. Auto-ignition temperature **Decomposition Temperature** Not available. Not available. Viscosity Explosive properties Not explosive. Oxidising properties Not oxidising.

**9.2 Other information** VOC: 589 g/l

### 10. SECTION 10: STABILITY AND REACTIVITY

10.1 Stability and reactivity
 10.2 Chemical stability
 Stable under normal conditions.
 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 product(s) May decompose in a fire giving off toxic fumes. Carbon oxides and traces of

incompletely burned carbon compounds.

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity

12.5

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 Acute Tox. 4: Harmful if inhaled.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 16.4 mg/l.

Skin Contact Acute Tox. 4: Harmful in contact with skin.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 1897 mg/kg

bw/day.

Skin corrosion/irritationSkin Irrit. 2: Causes skin irritation.Serious eye damage/irritationEye Irrit. 2: Causes serious eye irritation.

Respiratory or skin sensitizationBased upon the available data, the classification criteria are not met.Germ cell mutagenicityBased upon the available data, the classification criteria are not met.CarcinogenicityBased upon the available data, the classification criteria are not met.Reproductive toxicityBased upon the available data, the classification criteria are not met.

STOT - single exposure STOT SE 3: May cause respiratory irritation.

STOT - repeated exposure STOT RE 2: May cause damage to organs through prolonged or repeated

exposure: Central nervous system, Liver and Kidneys.

Aspiration hazard Based upon the available data, the classification criteria are not met.

**11.2 Other information** None.

## 12. SECTION 12: ECOLOGICAL INFORMATION

Results of PBT and vPvB assessment

**12.1 Toxicity** Based upon the available data, the classification criteria are not met.

Estimated Mixture LC50 > 100 mg/l (Fish)

**12.2** Persistence and degradability Part of the components are biodegradable.

12.3 Bioaccumulative potential No data.

**12.4 Mobility in soil** The product is predicted to have low mobility in soil (Insoluble in water).

Not classified as PBT or vPvB.

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12.6 Other adverse effects None known.

#### 13. 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. Dispose of this material and

its container as hazardous waste.

13.2 Additional Information Containers of this material may be hazardous when empty since they retain

product residue.

### 14. SECTION 14: TRANSPORT INFORMATION

ADR/RID / IMDG / IATA

**14.1 UN number** UN 1263

14.2 Proper Shipping Name PAINT RELATED MATERIAL

14.3 Transport hazard class(es) 3
14.4 Packing group III

14.5 Environmental hazards Not classified as a Marine Pollutant/ Environmentally hazardous substance

14.6 Special precautions for user See Section: 2
 14.7 Transport in bulk according to Annex II of MARPOL Not applicable.

73/78 and the IBC Code

14.8 Additional Information None.

## 15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the substance or

mixture

15.1.1 National regulations

USA NTP: Not listed

OSHA regulated: Not listed

15.1.2 IARC Monographs Not listed

**15.1.1 European regulations** Ethylbenzene (CAS# 100-41-4): Group 2B – Possibly carcinogenic to humans.

SVHCs None.

Wassergefährdungsklasse (Germany) Water hazard class: 2

**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). Harmonised Classification(s) for Xylene (CAS# 1330-20-7) and Ethylbenzene (CAS# 100-41-4). Existing ECHA registration(s) for Xylene (CAS# 1330-20-7) and Ethylbenzene (CAS# 100-41-4).

GHS Classification of the substance or mixture	Classification Procedure
Flam. Liq. 3; H226	Flash Point [Closed cup] Test Result/ Boiling Point (°C)
Acute Tox. 4; H312	Acute Toxicity Estimate Mixture Calculation
Skin Irrit. 2; H315	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
Acute Tox. 4; H332	Acute Toxicity Estimate Mixture Calculation
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

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PNEC Predicted No Effect Concentration

PBT PBT: Persistent, Bioaccumulative and Toxic vPvB very Persistent and very Bioaccumulative

NTP National Toxicology Program

IARC International Agency for Research on Cancer
OSHA The Occupational Safety & Health Administration
NIOSH National Institute for Occupational Safety and Health

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.