# SAFETY DATA SHEET

**Revision:** 2.0  **Date:** 11.05.2015

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

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

<table>
<thead>
<tr>
<th>1.1</th>
<th>Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>M-Coat A</td>
</tr>
<tr>
<td><strong>Chemical Name</strong></td>
<td>Mixture</td>
</tr>
<tr>
<td><strong>CAS No.</strong></td>
<td>Mixture</td>
</tr>
<tr>
<td><strong>EINECS No.</strong></td>
<td>Mixture</td>
</tr>
<tr>
<td><strong>REACH Registration No.</strong></td>
<td>None assigned.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.2</th>
<th>Recommended use of the chemical and restrictions on use</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Identified Use(s)</strong></td>
<td>PC9a Coatings and paints, thinners, paint removers</td>
</tr>
<tr>
<td><strong>Uses Advised Against</strong></td>
<td>None known.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.3</th>
<th>Supplier's details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Company Identification</strong></td>
<td>VISHAY MEASUREMENTS GROUP, INC.</td>
</tr>
<tr>
<td></td>
<td>Post Office Box 27777</td>
</tr>
<tr>
<td></td>
<td>Raleigh, NC 27611</td>
</tr>
<tr>
<td></td>
<td>USA</td>
</tr>
<tr>
<td><strong>Telephone</strong></td>
<td>919-365-3800</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>919-365-3945</td>
</tr>
<tr>
<td><strong>E-Mail (competent person)</strong></td>
<td><a href="mailto:mm.us@vishaypg.com">mm.us@vishaypg.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.4</th>
<th>Emergency Phone No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Emergency Phone No.</strong></td>
<td>1-800-424-9300</td>
</tr>
<tr>
<td><strong>CHEMTREC</strong></td>
<td></td>
</tr>
</tbody>
</table>

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**2. SECTION 2: HAZARDS IDENTIFICATION**

<table>
<thead>
<tr>
<th>2.1</th>
<th>Classification of the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GHS Classification</strong></td>
<td>Flam. Liq. 3; H226</td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4; H312</td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2; H315</td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2; H319</td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4; H332</td>
</tr>
<tr>
<td></td>
<td>STOT SE 3; H335</td>
</tr>
<tr>
<td></td>
<td>STOT RE 2; H373</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.2</th>
<th>Label elements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>M-Coat A</td>
</tr>
<tr>
<td><strong>Hazard Pictogram(s)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Signal Word(s)</strong></td>
<td>Danger</td>
</tr>
<tr>
<td><strong>Contains:</strong></td>
<td>Xylene and Ethylbenzene</td>
</tr>
<tr>
<td><strong>Hazard Statement(s)</strong></td>
<td>H226: Flammable liquid and vapour.</td>
</tr>
<tr>
<td></td>
<td>H312: Harmful in contact with skin.</td>
</tr>
<tr>
<td></td>
<td>H315: Causes skin irritation.</td>
</tr>
<tr>
<td></td>
<td>H319: Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>H332: Harmful if inhaled.</td>
</tr>
<tr>
<td></td>
<td>H335: May cause respiratory irritation.</td>
</tr>
<tr>
<td></td>
<td>H373: May cause damage to organs through prolonged or repeated exposure: Central nervous system, Liver and Kidneys.</td>
</tr>
<tr>
<td><strong>Precautionary Statement(s)</strong></td>
<td>P210: Keep away from heat, hot surfaces, sparks, open flames and other</td>
</tr>
</tbody>
</table>
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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.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

GHS Classification

<table>
<thead>
<tr>
<th>Chemical identity of the substance</th>
<th>%/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
</table>
| 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  
/ STOT SE 3; H335  
/ STOT RE 2; H373 |
| Oil Modified Polyurethane        | 30 - 45 | -       | -      | None assigned          | 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 |


4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

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 with water (only if the person is conscious). Get 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.
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.

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. 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.

6.2 Environmental precautions
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.

6.3 Methods and material for containment and cleaning up
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

6.4 Reference to other sections

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
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.
- Storage temperature: Ambient.
- Storage life: Stable under normal conditions.
- Incompatible materials: 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.

7.3 Specific end use(s)

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

8.1 Control parameters

8.1.1 Occupational Exposure Limits
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According to EC-regulations 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010

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

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

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.

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.

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.

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. Open system(s): Wear suitable respiratory protective equipment.

8.2.3 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Amber liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Benzene-like aromatic odour</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not established</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>137°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>26°C [closed cup]</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>0.6 (BuAc=1)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Liquid - Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Flammable Limits (Lower) (%v/v): 1.0 (Air)</td>
</tr>
<tr>
<td></td>
<td>Flammable Limits (Upper) (%v/v): 7.0 (Air)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&gt;1.1 bar</td>
</tr>
<tr>
<td>Vapour density</td>
<td>3.6</td>
</tr>
</tbody>
</table>
Relative density 1.14 g/cm³
Solubility(ies) 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.
9.2 Other information VOC: 589 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 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
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/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
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

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).
12.5 Results of PBT and vPvB assessment
Not classified as PBT or vPvB.
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**

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 73/78 and the IBC Code

Not applicable.

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).

<table>
<thead>
<tr>
<th>GHS Classification of the substance or mixture</th>
<th>Classification Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 3; H226</td>
<td>Flash Point [Closed cup] Test Result/ Boiling Point (°C)</td>
</tr>
<tr>
<td>Acute Tox. 4; H312</td>
<td>Acute Toxicity Estimate Mixture Calculation</td>
</tr>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Threshold Calculation</td>
</tr>
<tr>
<td>Eye Irrit. 2; H319</td>
<td>Threshold Calculation</td>
</tr>
<tr>
<td>Acute Tox. 4; H332</td>
<td>Acute Toxicity Estimate Mixture Calculation</td>
</tr>
<tr>
<td>STOT SE 3; H335</td>
<td>Threshold Calculation</td>
</tr>
<tr>
<td>STOT RE 2; H373</td>
<td>Threshold Calculation</td>
</tr>
</tbody>
</table>

**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  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.