

SAFETY DATA SHEET

Revision: 3.0 Date: 15.10.2015


ACCORDING TO OSHA HCS (29 CFR 1910.1200)

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SECTION 1: IDENTIFICATION

| | |
|--|--|
| 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, INC. Post Office Box 27777 Raleigh, NC 27611 USA |
| Telephone | +44 (0) 1256 462131 |
| Fax | +44 (0) 1256 471441 |
| E-Mail (competent person) | mm.uk@vishaypg.com |
| 1.4 Emergency telephone number | 1-800-424-9300 CHEMTREC |

SECTION 2: HAZARDS IDENTIFICATION

| | |
|---|---|
| 2.1 Classification of the substance or mixture | |
| 2.1.1 GHS Classification | Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 |
| 2.2 Label elements | |
| Product Name | GHS Classification M-Coat C |
| Hazard Pictogram(s) |  |
| Signal Word(s) | Danger |
| Contains: | Xylene, Solvent naphtha (petroleum), light aliph. and Trimethoxy(methyl)silane |
| Hazard Statement(s) | H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. 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. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

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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.

OSHA Defined Hazards/ Additional Information

None.

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

GHS Classification

| Chemical identity of the substance | %W/W | CAS No. | EC No. | Hazard classification |
|---|--------|------------|-----------|--|
| Dimethyl Siloxane, Hydroxy-Terminated | < 65 | 70131-67-8 | - | Not classified |
| Xylene | 25 | 1330-20-7 | 215-535-7 | 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 classified |
| Solvent naphtha (petroleum), light aliph. | 10 | 64742-89-8 | 265-192-2 | Asp. Tox. 1; H304 * |
| Trimethoxy(methyl)silane | 5 - 10 | 1185-55-3 | 214-685-0 | Flam. Liq. 2; H225 Skin Sens. 1; H317 |

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

Inhalation

Skin Contact

Eye Contact

Ingestion

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. 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 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 medical advice/attention.
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 Most important symptoms and effects, both acute and delayed | 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. May cause an allergic skin reaction. 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. |
| 4.3 Indication of any immediate medical attention and special treatment needed | Treat symptomatically. |

SECTION 5: FIREFIGHTING MEASURES

- | | |
|--|---|
| 5.1 Extinguishing media 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 Special hazards arising from the substance or mixture | 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 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. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

- | | |
|--|---|
| 6.1 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. |
| 6.2 Environmental precautions | Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. |
| 6.3 Methods and material for containment and cleaning up | 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. |
| 6.4 Reference to other sections | See Section: 8, 13 |

SECTION 7: HANDLING AND STORAGE

- | | |
|--|---|
| 7.1 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. |
| 7.2 Conditions for safe storage, including any incompatibilities Storage temperature Storage life Incompatible materials | 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. |

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7.3 Specific end use(s)

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 ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|-----------------------------------|-----------|---------------------|------------------------------------|------------|---------------------------|-------|
| Xylene, o-,m-,p- or mixed isomers | 1330-20-7 | 100 | 435 | 150* | 655* | NIOSH |
| | | 100 | 435 | - | - | OSHA |
| | | 100 | - | 150 | - | ACGIH |

Note: OSHA PELs 1910.1000 TABLE Z-1 / *NIOSH RELs / ACGIH TLVs
The other components listed in Section 3 do not have occupational exposure limits.

8.1.2 Biological limit value

| SUBSTANCE | CAS No. | Determinant | Biological Exposure Indices | Sampling Time | Note |
|-----------------------------------|-----------|--------------------------------|-----------------------------|---------------|------|
| Xylene, o-,m-,p- or mixed isomers | 1330-20-7 | Methylhippuric acids in urine. | 15 g/g Creatinine | End of shift | - |

Source: BEI: Biological Exposure Indices (ACGIH).
The other components listed in Section 3 do not have biological exposure indices.

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.

8.2.2 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.

Skin 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.

Respiratory protection



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.

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Milky white / Transparent Liquid. |
| Odour | Naphthalene odor. |
| 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 ₂ 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. |

9.2 Other information

Volatile Organic Compound Content: 300 g/L

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. Contact with water or humid air will form methanol. |
| 10.4 Conditions to avoid | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with moisture. |
| 10.5 Incompatible materials | Keep away from: Oxidizing agents. |
| 10.6 Hazardous decomposition product(s) | 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

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

| | |
|--|---|
| Acute toxicity | |
| Ingestion | Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day. |
| Inhalation | Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20.0 mg/l. |
| Skin Contact | Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 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 | Skin Sens. 1: May cause an allergic skin reaction. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT - single exposure | STOT SE 3: May cause respiratory irritation. |

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STOT - repeated exposure

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

Aspiration hazard

Asp. Tox. 1; May be fatal if swallowed and enters airways.

11.2 Other information

Likely routes of exposure

Inhalation

Yes

Ingestion

Accidental

Skin Contact

Yes

NTP Report on Carcinogens

No components listed.

IARC Monographs

No components listed as Groups 1 or 2.

Carcinogenic according to OSHA

No components listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Estimated Mixture LC50 >100 mg/l (Fish)

12.3 Bioaccumulative potential

Part of the components are biodegradable.

12.4 Mobility in soil

The product has low potential for bioaccumulation.

12.5 Other adverse effects

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

Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 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

14.1 UN number

ADR/RID / IMDG / IATA

UN 1993

14.2 UN proper shipping name

FLAMMABLE LIQUID, N.O.S (Xylene)

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.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 U.S. Federal Regulations

TSCA Inventory status

All components of this product are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA).

None known.

15.1.2 US State Regulations

15.1.3 European regulations

Substance(s) of Very High Concern (SVHCs)

None.

Authorisations and/or Restrictions On Use

None.

Wassergefährdungsklasse (Germany)

Water hazard class: 2

15.2 Chemical Safety Assessment

Not available.

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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

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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).

| GHS Classification of the substance or mixture | Classification Procedure |
|--|--|
| Flam. Liq. 3; H226 | Boiling Point (°C)/ Estimated Flash Point [Closed cup] |
| Skin Irrit. 2; H315 | Threshold Calculation |
| Skin Sens. 1; H317 | Threshold Calculation |
| Eye Irrit. 2; H319 | Threshold Calculation |
| STOT SE 3; H335 | Threshold Calculation |
| STOT RE 2; H373 | Threshold Calculation |

LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists
BEIs: Biological Exposure Indices
IARC: International Agency for Research on Cancer
LTEL: Long Term Exposure Limit
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
OSHA: The Occupational Safety & Health Administration

PBT: Persistent, Bioaccumulative and Toxic
PELs: Permissible Exposure Limits
RELs: Recommended Exposure limits
STEL: Short Term Exposure Limit
TLVs: Threshold limit values
vPvB: very Persistent and very Bioaccumulative

Hazard Statement(s)

H226: Flammable liquid and vapour.

H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

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.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.