

SAFETY DATA SHEET

Version: 4.0
Date of Issue: 17 December 2020
Date of First Issue: 19 June 2015

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ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 1: IDENTIFICATION

Product identifier used on the label	MCoat JA Part A	
Other means of identification	Not applicable	
Recommended use of the chemical and restrictions on use		
Recommended use	Sealants	
Restrictions on use	For professional users only.	
Details of the supplier of the safety data sheet		
Supplier	VISHAY MEASUREMENTS GROUP, INC.	
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	Not classified
Health hazards	Acute toxicity - Oral, Category 4 Skin sensitization, Category 1 Specific target organ toxicity — repeated exposure, Category 1
Environmental hazards	Hazardous to the aquatic environment, Chronic, Category 1

Hazard Symbol



Signal Word(s)

DANGER

Hazard Statement(s)

Harmful if swallowed.
May cause an allergic skin reaction.
Causes damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

Prevention

Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe vapour.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Avoid release to the environment.

Response

IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.
Wash contaminated clothing before reuse.

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Disposal Get medical advice/attention if you feel unwell.
Collect spillage.
Dispose of contents in accordance with local, state or national legislation.

Other hazards None Known

Percent of the mixture consists of ingredient(s) of unknown acute toxicity: 0%

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures Substances in preparations / mixtures

Chemical identity of the substance	%W/W	Synonyms	CAS No.	Hazard classification
Manganese dioxide	15 - 40	Manganese oxide (MnO ₂)	1313-13-9	Acute toxicity - Oral, Category 4 Acute toxicity - Inhalation, Category 4 Specific target organ toxicity — repeated exposure, Category 1
Terphenyl, hydrogenated*	10 - 30	Hydrogenated terphenyl	61788-32-7	Hazardous to the aquatic environment, Chronic, Category 2
Bis (piperidinothiocarbonyl) tetrasulphide	1 - 5	Dipentamethylenethiuram tetrasulfide; Methanethione, 1,1'-tetrathiobis[1-(1-piperidinyl)-	120-54-7	Skin sensitization, Category 1 Hazardous to the aquatic environment, Chronic, Category 2
Terphenyl	1 - 5	-	26140-60-3	Hazardous to the aquatic environment, Acute, Category 1 Hazardous to the aquatic environment, Chronic, Category 1, M-factor (Chronic): 10

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

Most important symptoms and effects, both acute and delayed

No action should be taken involving personal risk. Ensure adequate ventilation. Do not breathe vapour. Wear suitable protective clothing and gloves. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Apply artificial respiration if necessary (do not employ mouth-to-mouth method).

IF ON SKIN: Wash with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention. Take off contaminated clothing and wash it before reuse.

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 induce vomiting unless instructed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell.

Harmful if swallowed. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.

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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. Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable extinguishing Media

Do not use water jet. Direct water jet may spread the fire.

Special hazards arising from the substance or mixture

May decompose in a fire giving off toxic fumes. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides, metal oxides.

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. Do not allow run-off from fire-fighting to enter drains or water courses. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. Eliminate sources of ignition. Shut off leaks if without risk. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not breathe vapour. Use personal protective equipment as required. Remove contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. 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 up

Small spillages:

Stop leak if safe to do so. Dilute with water. Adsorb spillages onto sand, earth or any suitable adsorbent material. Ventilate the area and wash spill site after material pick-up is complete. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste.

Large spillages:

Stop leak if safe to do so. Keep upwind. Adsorb spillages onto sand, earth or any suitable adsorbent material. Ventilate the area and wash spill site after material pick-up is complete. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation. Use personal protective equipment as required. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage temperature

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep away from heat, sources of ignition and direct sunlight.

Storage life

Store above (°C): 5 (41 °F)

Incompatible materials

Stable under normal conditions

None known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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	Source
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Manganese dioxide (inorganic manganese compound)	1313-13-9	-	0.1	-	-	IPM	ACGIH
		-	1	-	3	-	NIOSH
		-	5	-	-	C	OSHA
Terphenyls, Hydrogenated	61788-32-7	0.5	-	-	-	Non-irradiated	ACGIH
		0.5	5	-	-		NIOSH
Talc	14807-96-6	-	2	-	-	A4	ACGIH
Magnesium carbonate	546-93-0	-	10	-	-	Total Respirable	NIOSH
		-	5	-	-		
		-	15	-	-	Total Respirable	OSHA
Terphenyls (o-, m-, p-isomers)	26140-60-3	-	-	-	5	C	ACGIH
		-	-	0.5	5	C	NIOSH
		1	9	-	-	C	OSHA

Source:

OSHA: Occupational Safety and Health Standards - Permissible Exposure Limit (PEL), 1910.1000 TABLE Z-1

NIOSH: National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs)

ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2019

Notes:

IPM: Inhalable particulate matter

C: Ceiling Limit Value

A4: Not Classifiable as a Human Carcinogen (containing no asbestos fibers)

Biological Exposure Indices

Not established.

Appropriate engineering controls

Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit. A washing facility/water for eye and skin cleaning purposes should be present.

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.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

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. Select a filter suitable for organic gases and vapours. Recommended: EN143, Filter type A.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Black, Liquid

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Odor	Not determined.
Odor Threshold	Not available.
pH	Not established.
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	> 37.78 °C
Flash Point	98.89 °C [Closed cup]
Evaporation rate (Butyl acetate = 1)	Not established.
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	0.27 kPa (2.03 mm Hg) @ 20°C
Vapour density	Terphenyl, hydrogenated: 7.95 (Air = 1)
Relative density	1.65 g/cm ³
Solubility(ies)	Insoluble in cold water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	> 0.21 cm ² /s @ 40°C
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.
Incompatible materials	Keep away from: Oxidizing agents and Acids.
Hazardous decomposition product(s)	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides, metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity - Ingestion	Acute toxicity - Oral, Category 4; Harmful if swallowed. Acute Toxicity Estimate Mixture Calculation: LD50 >300 - ≤2000 mg/kg bw/day.
Acute toxicity - Inhalation	Manganese dioxide Acute toxicity - Oral, Category 4; Harmful if swallowed. Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 > 20.0 mg/l.
Acute toxicity - Skin Contact	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day.
Skin corrosion/irritation	Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitization	Skin sensitization, Category 1; May cause an allergic skin reaction. Bis (piperidinothiocarbonyl) tetrasulphide Skin sensitization, Category 1; May cause an allergic skin reaction. EU classification and labelling inventory, ≥30 Notifiers
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	Based upon the available data, the classification criteria are not met.
STOT - repeated exposure	Specific target organ toxicity — repeated exposure, Category 1; Causes damage to organs through prolonged or repeated exposure. Manganese dioxide Specific target organ toxicity — repeated exposure, Category 1; Causes damage to organs through prolonged or repeated exposure: brain, central nervous system (Inhalation)

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Aspiration hazard	Repeat dose studies have shown the potential to cause neurotoxicity. (Eriksson et al, 1987) Based upon the available data, the classification criteria are not met.
Information on likely routes of exposure	
Inhalation	Possible – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin Contact	Possible – accidental exposure
Eye Contact	Unlikely – accidental exposure
Early onset symptoms related to exposure	Harmful if swallowed. May cause an allergic skin reaction.
Delayed health effects from exposure	Causes damage to organs through prolonged or repeated exposure.
Other information	
NTP Report on Carcinogens	All chemicals are not listed
IARC Monographs	All chemicals are not listed
OSHA Designated Carcinogen	All chemicals are not listed
NIOSH Occupational Carcinogen List	All chemicals are not listed

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Hazardous to the aquatic environment, Chronic, Category 1; Very toxic to aquatic life. Estimated Mixture LC50: ≤ 1 mg/l (Fish)
Manganese dioxide	Not classified
Terphenyl, hydrogenated	Hazardous to the aquatic environment, Chronic, Category 2; Toxic to aquatic life with long lasting effects.
Bis (piperidinothiocarbonyl) tetrasulphide	Hazardous to the aquatic environment, Chronic, Category 2; Toxic to aquatic life with long lasting effects.
Terphenyl	Hazardous to the aquatic environment, Acute, Category 1; Very toxic to aquatic life. M-factor: 1
	Hazardous to the aquatic environment, Chronic, Category 1; Very toxic to aquatic life with long lasting effects. M-factor: 10
Persistence and degradability	No data for the mixture as a whole.
Manganese dioxide	Not applicable for inorganic substances.
Terphenyl, hydrogenated	Inherently Biodegradable
Bis (piperidinothiocarbonyl) tetrasulphide	No data available
Terphenyl	Not readily biodegradable. In Water: persistent.
Bioaccumulative potential	No data for the mixture as a whole.
Manganese dioxide	Not applicable for inorganic substances.
Terphenyl, hydrogenated	The substance has high potential for bioaccumulation. BCF: 5200
Bis (piperidinothiocarbonyl) tetrasulphide	No data available
Terphenyl	The substance has low potential for bioaccumulation. BCF: 25 - 129
Mobility in soil	No data for the mixture as a whole. The product is predicted to have low mobility in soil. Insoluble in cold water.
Manganese dioxide	The substance has low mobility in soil. Kd: ~ 1355 (OECD 106)
Terphenyl, hydrogenated	The substance has low mobility in soil. LogKoc: 4.2 – 6.1
Bis (piperidinothiocarbonyl) tetrasulphide	No data available
Terphenyl	The substance has low mobility in soil. LogKoc: 4.2 – 5.8
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of this material and its container as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance with local, state or national legislation.
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Additional Information

Containers of this material may be hazardous when empty since they retain product residue. Ensure that all packaging is disposed of safely.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	ICAO/IATA
UN number	UN 3082	UN 3082	UN 3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Environmentally hazardous substance	Classified as a Marine Pollutant.	Environmentally hazardous substance
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.		
Special precautions for user	See Section: 2		
Additional Information	None		

SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations

TSCA Chemical Data Reporting (CDR) Rule

Terphenyl - Subject to 25,000 lb reporting threshold
Manganese dioxide - Subject to 25,000 lb reporting threshold
Terphenyl, hydrogenated - Subject to 25,000 lb reporting threshold
Bis (piperidinothiocarbonyl) tetrasulphide - Subject to 25,000 lb reporting threshold

EPCRA/SARA Section 302 Extremely Hazardous Substances

All chemicals are not listed

EPCRA Section 313 Toxics Release Inventory (TRI) Program

Manganese dioxide - Manganese compound - De Minimis limit: 1%

NIOSH Occupational Carcinogen List

All chemicals are not listed

OSHA List of highly hazardous chemicals, toxics and reactives

All chemicals are not listed

NTP Report on Carcinogens (RoC) List

All chemicals are not listed

Poison Prevention Packaging Act

No Components Listed

US State Regulations

California State, Proposition 65 List

All chemicals are not listed

California State, Safer Consumer Products Regulations

Terphenyl, hydrogenated - Candidate Chemicals List

Maine State, Toxic Chemicals in Children's Products Act

Terphenyl - COC list

New Jersey State Worker and Community RTK Act

Terphenyl

Terphenyl, hydrogenated

Manganese dioxide - Manganese compound

Pennsylvania State, Worker and Community RTK Act

Terphenyl

Terphenyl, hydrogenated

Manganese dioxide - Manganese compound

Rhode Island State, Hazardous Substances RTK Act

All chemicals are not listed

Non-Regional

IARC Monographs, List of Classifications

All chemicals are not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification. Updated version and date. Please review SDS with care. See below -

Sections indicated with the following have been revised:

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References: Existing Safety Data Sheet (SDS), EU Harmonised Classification(s) for Manganese dioxide (CAS No. 1313-13-9). EU Existing ECHA registration(s) for Manganese dioxide (CAS No. 1313-13-9), Terphenyl, hydrogenated (CAS No. 61788-32-7), Terphenyl (CAS No. 26140-60-3). The classification and labelling inventory for Bis (piperidinothiocarbonyl) tetrasulphide (CAS No. 120-54-7).

Literature References:

1. Eriksson H, Magiste K, Platin L-O, Fonnum F, Hedstrom K-G, Theodorsson-Norheim E, Kristensson K, Stalberg E & Heilbronn E. (1987). Effects of manganese oxide on monkeys as revealed by a combined neurochemical, histological and neurophysiological evaluation. Arch. Toxicol., 61: 46-52.

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200	Classification Procedure
Acute toxicity - Oral, Category 4	Acute Toxicity Estimate Mixture Calculation
Skin sensitization, Category 1	Threshold Calculation
Specific target organ toxicity — repeated exposure, Category 1	Threshold Calculation
Hazardous to the aquatic environment, Chronic, Category 1	Summation Calculation

LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists
BCF: Bioconcentration factor
IARC: International Agency for Research on Cancer
LTEL: Long Term Exposure Limit
M-factor: multiplying factor
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OECD: Organisation for Economic Cooperation and Development
OSHA: The Occupational Safety & Health Administration
PEL: Permissible exposure limit
REL: Recommended exposure limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit value
TSCA: Toxic Substance Control Act

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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