

SAFETY DATA SHEET

Version: 3.0
Date of Issue: 02 May 2017
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 B	
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	Not classified	
Physical hazards	Skin corrosion/irritation, Category 2	
Health hazards	Skin Sensitisation, Category 1 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 Hazardous to the aquatic environment, Chronic , Category 2	
Environmental hazards		
Hazard Symbol		
Signal Word(s)	WARNING	
Hazard Statement(s)	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.	
Precautionary Statement(s)	Avoid breathing dust. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. If skin irritation 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	

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Store in a well-ventilated place. Keep container tightly closed.
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	CAS No.	EC No.	Hazard classification
Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (Sx)), reduced	<50	68611-50-7	614-671-8	Skin corrosion/irritation, Category 2 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 - Respiratory Tract Hazardous to the aquatic environment, Chronic , Category 2
Proprietary modified polysulfide polymer	<5	SUB120978	-	Skin corrosion/irritation, Category 2
Ethyl acetate	<5	141-78-6	205-500-4	Flammable Liquid, Category 2 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 – Narcotic effects
Proprietary modified polysulfide polymer	<5	SUB120976	-	Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 - Respiratory Tract
Titanium dioxide	<3	13463-67-7	236-675-5	Not classified
Proprietary modified polysulfide polymer	<3	SUB120979	-	Skin corrosion/irritation, Category 2
3-aminopropyltriethoxysilane	<0.5	919-30-2	213-048-4	Acute toxicity, Category 4 – Oral Skin corrosion/irritation, Category 1B Skin Sensitisation, Category 1
2,2'-thiodiethanethiol	<0.5	3570-55-6	222-671-0	Acute toxicity, Category 4 – Oral Acute toxicity, Category 4 – Dermal Acute toxicity, Category 4 – Inhalation Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 - Respiratory Tract

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Avoid breathing dust. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Do not use mouth-to-mouth resuscitation.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position

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Skin Contact	comfortable for breathing. IF exposed or concerned: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If irritation (redness, rash, blistering) develops, get medical 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. Do not induce vomiting unless instructed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell.
Most important symptoms and effects, both acute and delayed	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Suitable Extinguishing Media	Do not use water jet. Direct water jet may spread the fire.
Unsuitable extinguishing Media	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, halogenated compounds.
Special hazards arising from the substance or mixture	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.
Special protective equipment and precautions for fire fighters	

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid breathing dust. Avoid contact with skin and eyes. Ensure adequate ventilation. Stop leak if safe to do so. Use personal protective equipment as required. See Section: 8.
Methods and material for containment and cleaning up	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.
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	Avoid breathing dust. Avoid contact with skin and eyes. Ensure adequate ventilation. 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.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep away from heat, sources of ignition and direct sunlight.
Storage temperature	Store above (°C): 5 (41 °F)
Storage life	Stable under normal conditions.
Unsuitable containers:	None known.
Incompatible materials	Keep away from: Oxidizing agents and Acids. Keep from direct sunlight.

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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
Ethyl acetate	141-78-6	400	1400	-	-	NIOSH, OSHA
		400	-	-	-	ACGIH
Titanium dioxide	13463-67-7	-	-	-	-	NIOSH, Ca
		-	15	-	-	OSHA Total dust
		-	10	-	-	ACGIH, A4

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

Ca - Potential occupational carcinogens

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.

The other components listed in Section 3 do not have occupational exposure limits.

Biological Exposure Indices

Not established

Appropriate engineering controls

Ensure adequate ventilation. 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)

General hygiene measures for the handling of chemicals are applicable. Avoid all contact. Avoid breathing dust. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid, beige
Odor	Not determined.
Odor Threshold	Not available.
pH	Not established.
Melting Point/Freezing Point	Not available.

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Initial boiling point and boiling range	Not established.
Flash Point	Not established.
Evaporation rate (Butyl acetate = 1)	Not established.
Flammability (solid, gas)	Not established.
Upper/lower flammability or explosive limits	Not established.
Vapour pressure	Not established.
Vapour density	Not established.
Relative density	1.16 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	Not applicable

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	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >2000 mg/kg bw/day.
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >20 mg/l.
Acute toxicity - Skin Contact	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
Skin corrosion/irritation	Skin corrosion/irritation, Category 2; Causes skin irritation.
Serious eye damage/irritation	Eye Irritation, Category 2; Causes eye irritation.
Respiratory or skin sensitization	Skin Sensitisation, Category 1: May cause an allergic skin reaction.
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	Specific target organ toxicity — single exposure, Category 3; May cause respiratory irritation.
STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
Aspiration hazard	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	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.
Delayed health effects from exposure	None known.

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Other information

NTP Report on Carcinogens
IARC Monographs
OSHA Designated Carcinogen

All chemicals are not listed
Titanium dioxide: Group 2B - Possibly carcinogenic to humans.
All chemicals are not listed

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.
Estimated Mixture LC50 >1 ≤ 10 mg/l (Fish)

Persistence and degradability

No data for the mixture as a whole.

Bioaccumulative potential

No data for the mixture as a whole.

Mobility in soil

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

Other adverse effects

Not classified as PBT or vPvB.

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

This material and its container must be disposed of as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation.

Additional Information

Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN number	UN 3082	UN 3082	UN 3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (Sx)), reduced)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (Sx)), reduced)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (Sx)), reduced)
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		

SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations

TSCA (Toxic Substance Control Act)

Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na₂(Sx)), reduced: Exempt from reporting under CDR

Ethyl acetate: Subject to 25,000 lb reporting threshold

Titanium dioxide: Subject to 25,000 lb reporting threshold

3-aminopropyltriethoxysilane: Subject to 25,000 lb reporting threshold

2,2'-thiodiethanethiol: Subject to 25,000 lb reporting threshold

All chemicals are not listed

EPCRA/SARA Section 302 Extremely Hazardous Substances

EPCRA Section 313 Toxics Release Inventory (TRI) Program

All chemicals are not listed

NIOSH Occupational Carcinogen List

All chemicals are not listed

OSHA List of highly hazardous chemicals, toxics and

All chemicals are not listed

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reactives

NTP Report on Carcinogens (RoC) List

Poison Prevention Packaging Act

US State Regulations

California State, Proposition 65 List

California State, Safer Consumer Products Regulations

Maine State, Toxic Chemicals in Children's Products Act

New Jersey State Worker and Community RTK Act

Pennsylvania State, Worker and Community RTK Act

Rhode Island State, Hazardous Substances RTK Act

Non-Regional

IARC Monographs, List of Classifications

All chemicals are not listed

All chemicals are not listed

Titanium dioxide: Airborne, unbound particles of respirable size

Titanium dioxide: Candidate Chemicals List)

All chemicals are not listed

Ethyl acetate: RTKHSL, SHHSL

Titanium dioxide: RTKHSL

Ethyl acetate: Hazardous Substance List, Environmental Hazard List

Titanium dioxide: Hazardous Substance List

Ethyl acetate: Hazardous Substance List

Titanium dioxide: Hazardous Substance List

Titanium dioxide: Group 2B - Possibly carcinogenic to humans.

Titanium dioxide is listed by IARC as a Group 2B substance (possibly carcinogenic to humans), however, IARC monographs Vol. 93 states that exposure levels are assumed to be lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide. Titanium dioxide in this mixture is mostly in a bound form. Therefore no significant exposure to titanium dioxide is thought to occur during the use of this product.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification. New SDS Regulation compliant with HazCom 2012 format, all sections have been updated to include new information. Please review SDS with care.

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References:

Existing Safety Data Sheet (SDS), EU Data: Harmonised Classification(s) for Sodium hydroxide (CAS No. 1310-73-2), Manganese dioxide (CAS No. 1313-13-9). 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), Sodium hydroxide (CAS No. 1310-73-2), the Classification and Labelling Inventory for Poly(oxy-1,2-ethanediy), α -[(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy- (CAS No. 9036-19-5), Bis (piperidinothiocarbonyl) tetrasulphide (CAS No. 120-54-7).

GHS Classification of the substance or mixture	Classification Procedure
Skin corrosion/irritation, Category 2	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Eye Irritation, Category 2	Threshold Calculation
Specific target organ toxicity — single exposure, Category 3	Threshold Calculation
Hazardous to the aquatic environment, Chronic, Category 2	Summation Calculation

LEGEND

ACGIH: American Conference of Governmental Industrial Hygienists

BEI: Biological Exposure Indices (ACGIH)

IARC: International Agency for Research on Cancer

Irr: Irritation

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: The Occupational Safety & Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PEL: Permissible exposure limit

REL: Recommended exposure limit

SCL: Specific Concentration Limit

Skin^o: Risk of overexposure via dermal contact

STEL: Short Term Exposure Limit

TLV: Threshold Limit value

TSCA: Toxic Substance Control Act

TWA: Time Weighted Average

URT: Upper respiratory tract

vPvB: very Persistent and very Bioaccumulative

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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