

SAFETY DATA SHEET

M-COAT JA PART B

www.vpgsensors.com

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2020/878

Date of issue: 06/12/2022
Date of First Issue: 28/09/2015
Version 4.0

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

1.1 Product identifier		
Product Name	M-Coat JA Part B	
Product Code	Not applicable	
Unique Formula Identifier (UFI)	Not applicable	
Nanoform	The product does not contain nanoparticles.	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified Use(s)	Sealants	
Uses Advised Against	None Known	
1.3 Details of the supplier of the safety data sheet		
Company Identification	VISHAY MEASUREMENTS GROUP GMBH Tatschenweg 1 74078 Heilbronn Deutschland	
Telephone	+49 (0) 7131 39099-0	
Fax	+49 (0) 7131 39099-229	
E-Mail (competent person)	mm.de@vpgsensors.com	
1.4 Emergency telephone number		
National Poisons Information Service (United Kingdom)	+44 (0) 3448 920111	24 hr. emergency phone number Healthcare Professionals ONLY
NHS 24	111	Members of Public
Emergency Phone No.	(00-1) 703-527-3887	CHEMTREC (24 hours)
Languages spoken	All official European languages.	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture		
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Aquatic Chronic 3; H412	
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)	
Product Name	M-Coat JA Part B	
Hazard Pictogram(s)	None assigned	
Signal Word(s)	None assigned	
Contains:	Not Applicable	
Hazard Statement(s)	H412: Harmful to aquatic life with long lasting effects.	
Precautionary Statement(s)	P273: Avoid release to the environment.	
Supplemental information	EUH208: Contains: 3-Aminopropyltriethoxysilane May produce an allergic reaction.	
2.3 Other hazards	not applicable	

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable.

3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (Sx)), reduced	40 - <50	68611-50-7	614-671-8	Not yet assigned in the supply chain	Aquatic Chronic 3; H412
Ethyl acetate	4 - < 5	141-78-6	205-500-4	Not yet assigned in the supply chain	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066
Proprietary modified polysulfide polymer	< 5	-	-	Not yet assigned in the supply chain	Skin Irrit. 2; H315
Titanium dioxide	< 3	13463-67-7	236-675-5	Not yet assigned in the supply chain	Carc. 2; H351
Proprietary modified polysulfide polymer	2- < 3	-	-	Not yet assigned in the supply chain	Eye Irrit. 2; H319 STOT SE 3; H335
Proprietary modified polysulfide polymer	2 - < 3	-	-	Not yet assigned in the supply chain	Skin Irrit. 2; H315
3-aminopropyltriethoxysilane	< 0.5	919-30-2	213-048-4	Not yet assigned in the supply chain	Acute Tox. 4 ; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317
2,2'-thiodiethanethiol	< 0.5	3570-55-6	222-671-0	Not yet assigned in the supply chain	Acute Tox. 4; H301 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Note: For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Avoid breathing dust. Ensure adequate ventilation. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Avoid contact with skin. Contaminated clothing should be laundered before reuse. Do not use mouth-to-mouth resuscitation.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash 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.

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Ingestion

IF SWALLOWED: Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do not induce vomiting. Do not give anything by mouth to an unconscious person. If symptoms persist, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No information available. Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

As appropriate for surrounding fire. Extinguish preferably with dry chemical, sand, foam or carbon dioxide.

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Not flammable. 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

5.3 Advice for fire-fighters

Caution - spillages may be slippery. Shut off leaks if without risk. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Evacuate the area and keep personnel upwind. 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

Caution - spillages may be slippery. Ensure operatives are trained to minimise exposures. No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Use personal protective equipment as required. See Section: 8.

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

Provided it is safe to do so, isolate the source of the leak. Sweep spilled substances into containers if appropriate moisten first to prevent dusting. Use non-sparking equipment when picking up flammable spill. Collect mechanically and dispose of according to Section 13. Use non-sparking tools. Ventilate the area and wash spill site after material pick-up is complete. Recover or recycle if possible.

6.4 Reference to other sections

See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid breathing dust. Wear suitable gloves if prolonged skin contact is likely. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated clothing should be laundered before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

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

Storage life

Ambient.

Incompatible materials

Stable under normal conditions.

7.3 Specific end use(s)

Keep away from: Acids and Strong oxidising agents.

See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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8.1.1 Occupational Exposure Limits

United Kingdom

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	200	734	400	1468	-
Titanium dioxide	13463-67-7	-	10 4	-	-	-

Source: UK WEL: Workplace Exposure Limit (UK HSE EH40)

Ireland

SUBSTANCE	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
		ppm	mg/m ³	ppm	mg/m ³	
Ethyl acetate	141-78-6	200	734	400	1468	IOELV
Titanium dioxide	13463-67-7	-	10 4	-	-	-

Source: 2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 – 2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority

Notations:

IOELV: Indicative Occupational Exposure Limit 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 all contact. Avoid breathing vapours. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. 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. Recommended: PVC / Nitrile rubber.

Body protection:

Wear dustproof working clothes. Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

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Respiratory protection



Use only in well-ventilated areas. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Thermal hazards

Not applicable

8.2.3 Environmental exposure controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Beige
Odour	Not established.
Melting point and freezing point	Not established.
Boiling point or initial boiling point and boiling range	Not established.
Flammability	Not established.
Lower and upper explosion limit or lower and upper flammability limit	Not applicable.
Flash point	Not applicable.
Auto-ignition temperature	Not established.
Decomposition temperature	Not established.
pH	Not established.
Kinematic viscosity	Not established.
Solubility	Insoluble in cold water.
Partition coefficient: n-octanol/water (log value)	Not established.
Vapour pressure	Not applicable.
Density and/or relative density	1.16 g/cm ³
Relative vapour density	Not applicable.
Particle characteristics	No data available

9.2 Other information

Explosive properties	Not explosive
Oxidising properties	Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	May form explosible dust clouds in air. Contact with water or moist air causes production of opaque and corrosive fumes.
10.4 Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.
10.5 Incompatible materials	Keep away from: Acids and Strong oxidising agents.
10.6 Hazardous decomposition product(s)	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides, metal oxides, halogenated compounds

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Ingestion

Mixture: Based upon the available data, the classification criteria are not met.
Acute Toxicity Estimate Mixture Calculation: Estimated Estimated LD50 > 2000 mg/kg bw/day

Inhalation

Mixture: Based upon the available data, the classification criteria are not met.

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Skin Contact	Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 5 mg/l. (dust/mist) Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated 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	Based upon the available data, the classification criteria are not met. EUH208: Contains: 3-Aminopropyltriethoxysilane May produce an allergic reaction.
3-Aminopropyltriethoxysilane	Skin Sens. 1; H317: May cause an allergic skin reaction.
Germ cell mutagenicity	Harmonised Classification
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	Based upon the available data, the classification criteria are not met.
Aspiration hazard	Based upon the available data, the classification criteria are not met.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
11.2.2 Other information	None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Mixture: Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.
Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (Sx)), reduced	Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. EU classification and labelling inventory (>100 Notifiers)
2,2'-thiodiethanethiol	Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects. EC50: 0.89 mg/L (Algae) (OECD 201) Aquatic Acute 1; H400: Very toxic to aquatic life. LC50: 0.12 mg/L (Fish) (Unnamed publication, 1993)
12.2 Persistence and degradability	No data for the mixture as a whole.
Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (Sx)), reduced	No data available
Ethyl acetate	Readily biodegradable. Water % Degradation: 69 (20 days)
Proprietary modified polysulfide polymer	No data available
Titanium dioxide	Not applicable for inorganic substances.
Proprietary modified polysulfide polymer	No data available
Proprietary modified polysulfide polymer	No data available
3-aminopropyltriethoxysilane	Readily biodegradable. (OECD 306) Rapid Hydrolysis
2,2'-thiodiethanethiol	Not readily biodegradable Water % Degradation: -1.1 % (28 days) (OECD 301 D)
12.3 Bioaccumulative potential	No data for the mixture as a whole.
Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (Sx)), reduced	No data available
Ethyl acetate	Low bioaccumulation potential. BCF: 30
Proprietary modified polysulfide polymer	No data available
Titanium dioxide	Not applicable for inorganic substances.
Proprietary modified polysulfide polymer	No data available

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	Proprietary modified polysulfide polymer	No data available
	3-aminopropyltriethoxysilane	Low bioaccumulation potential. BCF: 3.4 (OECD 305C)
	2,2'-thiodiethanethiol	No data available
12.4	Mobility in soil	No data for the mixture as a whole.
	Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na ₂ (S _x)), reduced	No data available
	Ethyl acetate	Can be waived on basis of low partition coefficient
	Proprietary modified polysulfide polymer	No data available
	Titanium dioxide	Not applicable for inorganic substances.
	Proprietary modified polysulfide polymer	No data available
	Proprietary modified polysulfide polymer	No data available
	3-aminopropyltriethoxysilane	The substance is predicted to have high mobility in soil. LogKoc: -0.6 QSAR (Unnamed publication, 2020)
	2,2'-thiodiethanethiol	Can be waived on basis of low partition coefficient
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7	Other adverse effects	None known

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. Directive 2008/98/EC (Waste Framework Directive): HP14
13.2	Additional Information	Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	ADN	IMDG	IATA/CAO
14.1	UN number or ID number	None assigned	None assigned	None assigned
14.2	UN proper shipping name	None assigned	None assigned	None assigned
14.3	Transport hazard class(es)	None assigned	None assigned	None assigned
14.4	Packing group	None assigned	None assigned	None assigned
14.5	Environmental hazards	Not applicable	Not applicable	Not classified as a Marine Pollutant.
14.6	Special precautions for user	See Section: 2		
14.7	Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	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	EU regulations	
	Use restriction according to REACH annex XVII, no.: Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]	Not restricted Not applicable

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Restrictions of occupation:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

To follow:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

15.1.2 National regulations

Germany

Water hazard class (WGK)

Water hazard class: 1

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS).

EU Harmonised Classification(s) for Ethyl acetate(CAS No. 141-78-6) and 3-aminopropyltriethoxysilane (CAS No. 919-30-2),

Existing ECHA registration(s) for Ethyl acetate (CAS No. 141-78-6), Titanium dioxide (CAS No. 13463-67-7), 3-aminopropyltriethoxysilane (CAS No. 919-30-2) and 2,2'-thiodiethanethiol (CAS No. 3570-55-6).

EU classification and labelling inventory for Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na₂(Sx)), reduced (CAS No. 68611-50-7).

Supplier raw material SDS for Proprietary modified polysulfide polymers

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Aquatic Chronic 3; H412	Summation Calculation
	EUH208: Contains: 3-Aminopropyltriethoxysilane May produce an allergic reaction.

LEGEND

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCF	Bioconcentration factor (BCF)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
EC	European Community
ECHA	European Chemicals Agency
EN	European Standard
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
NOAEC	No observed adverse effect concentration
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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TWA Time Weighted Average
STEL Short term exposure limit
vPvB very Persistent and very Bioaccumulative
UN United Nations

Hazard classification / Classification code:

Flam. Liq. 2; Flammable liquid, Category 2
Acute Tox. 4; Acute toxicity, Category 4
Skin Corr. 1B; Skin corrosion/irritation, Category 1B
Skin Irrit. 2; Skin corrosion/irritation, Category 2
Skin Sens. 1; Skin Sensitisation, Category 1
Eye Dam. 1; Eye Damage, Category 1
Eye Irrit. 2; Serious eye damage/irritation, Category 2
STOT SE 3; Specific target organ toxicity — single exposure, Category 3
STOT SE 3; Specific target organ toxicity — single exposure, Category 3
Carc. 2; Carcinogenicity, Category 2
Aquatic Acute 1; Hazardous to the aquatic environment, Acute, Category 1
Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic , Category 1
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic , Category 3

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

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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