SAFETY DATA SHEET

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M-Coat JA Part B

ACCORDING TO: CODE OF PRACTICE FOR THE PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS (SAFE WORK AUSTRALIA, 2020) & GHS 7

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier

Product name	M-Coat JA Part B
CAS No.	Not applicable - Mixture

1.2 Recommended use of the chemical and restrictions on use

Identified Use(s)	Sealants
Uses advised against	None Known

1.3 Details of the supplier

Company Identification	VISHAY MEASUREMENTS GROUP, INC. Post Office Box 27777 Raleigh, NC 27611 USA
Telephone	+1 919-365-3800
E-mail (competent person)	mm.us@vpgsensors.com

Importer/Distributor name, address and telephone number

Name	
Company Address	
Telephone	

1.4 Emergency Phone No.

Emergency Phone No.	1-800-424-9300 (24 hours) 61-290372994 (for spills and releases) CHEMTREC (24 hours)
Languages spoken	English

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 In accordance with the Safe Work Australia model Work Health and Safety Regulations (2020) & GHS 7

Hazardous to the aquatic environment, Chronic, Category 3
Hazardous to the aquatic environment, Acute, Category 3

2.2 GHS label elements, including precautionary statements

Product name	M-Coat JA Part B
Hazard Pictogram(s)	None assigned
Signal Word(s)	None assigned.
Hazard Statement(s)	H412: Harmful to aquatic life with long lasting effects. H402: Harmful to aquatic life.
Precautionary Statement(s)	P273: Avoid release to the environment.

2.3 Other hazards which do not result in classification Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable.

3.2 Mixtures

GHS Classification

Chemical identity of the substance	Common name(s), synonym(s) 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 (Na2(Sx)), reduced		<50	68611-50-7	614-671-8	Hazardous to the aquatic environment, Chronic, Category 3
Ethyl acetate	Acetic acid; ethyl ester; Acetic ester	< 5	141-78-6	205-500-4	Flammable Liquid, Category 2 Serious eye damage/irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects)
Proprietary modified polysulfide polymer	-	< 5	-	-	Skin corrosion/irritation, Category 2
Titanium dioxide	CI 77891	< 3	13463-67-7	236-675-5	Not classified
Proprietary modified polysulfide polymer	-	< 3	-	-	Serious eye damage/irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Irritation to respiratory tract)
Proprietary modified polysulfide polymer	-	< 3	-	-	Skin corrosion/irritation, Category 2
3-aminopropyltriethoxysilane	1-Propanamine, 3-(triethoxysilyl)-	< 0.5	919-30-2	213-048-4	Acute toxicity, Oral, Category 4 Skin corrosion/irritation, Category 1B Skin sensitization, Category 1 Eye Damage, Category 1
2,2'-thiodiethanethiol	-	< 0.5	3570-55-6	222-671-0	Acute toxicity, Oral, Category 3 Skin sensitization, Category 1 Hazardous to the aquatic environment, Acute, Category 1 Hazardous to the aquatic environment, Chronic, Category 1

For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary 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.
	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/effects, acute and delayed**	No information available. Treat symptomatically.
4.3	**Indication of immediate medical attention and special treatment needed, if necessary**	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	**Specific hazards arising from the chemical**	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	**Special protective actions 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.
5.4	**Hazchem Code**	Not applicable.

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**	Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition and direct sunlight.
	Storage temperature	Ambient.
	Storage measures	Stable under normal conditions.
	Incompatible materials	Keep away from: Acids and Strong oxidising agents.
7.3	**Specific end use(s)**	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

Chemical name	Synonym(s)	CAS No.	TWA (ppm)	TWA (mg/m³)	STEL (ppm)	STEL (mg/m³)	Advisory carcinogen category	Other advisory information	Notes
Ethy acetate	Acetic acid ethyl ester Acetic ester	141-78-6	200	720	400	1440	-	-	-
Titanium dioxide	-	13463-67-7	-	10	-	-	-	-	(a)

Source: Safe Work Australia Workplace Exposure Standards for Airbourne Contaminants (2019)
Notes:
(a):This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

8.1.2 Biological limit value — 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. 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 — General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Avoid breathing dust. 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.

Eye/ face protection

Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection

Wear impervious gloves. Recommended: EN374. Gloves should be changed regularly to avoid permeation problems. The gloves type used must be chosen based on the work activity and duration as well as concentration/quantity of material being handled.

Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. A self contained breathing apparatus may be appropriate.

Thermal hazards — Not applicable.

8.2.3 Environmental exposure controls — Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

9.1 Basic physical and chemical properties

Physical state	Solid
Colour	Beige

Odour	Not established.
Melting point/freezing point	Not established.
Boiling point or initial boiling point and boiling range	Not established.
Flammability	Not established.
Lower and upper explosion limit/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**	Hazardous polymerisation will not occur.
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 products**	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 toxicological effects

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 >20.0 mg/l.
Acute toxicity - Dermal	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	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 sensitisation	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	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.

Information on likely routes of exposure

Inhalation	Unlikely – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin contact	Possible – accidental exposure
Eye contact	Unlikely – accidental exposure

	Symptoms related to the physical, chemical and toxicological characteristics	Not applicable
	Delayed and immediate effects and also chronic affects from short and long term exposure	not applicable
	Numerical measures of toxicity (such as acute toxicity estimates)	None Known
	Interactive effects	None Known
11.2	**Other information**	None Known
	NTP Report on Carcinogens	No components listed.
	IARC Monographs	No components listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Mixture: Hazardous to the aquatic environment, Chronic, Category 3 H412: Harmful to aquatic life with long lasting effects. Hazardous to the aquatic environment, Acute, Category 3 H402: Harmful to aquatic life.
	Propane, 1,2,3-trichloro-, polymer with 1,1'-[methylenebis(oxy)]bis[2-chloroethane] and sodium sulfide (Na2(Sx)), reduced	Hazardous to the aquatic environment, Chronic, Category 3: Harmful to aquatic life with long lasting effects EU classification and labelling inventory (>100 Notifiers)
	2,2'-thiodiethanethiol	Hazardous to the aquatic environment, Acute, Category 1: Very toxic to aquatic life. LC50: 0.12 mg/L (Fish) (Unnamed publication, 1993) Hazardous to the aquatic environment, Chronic, Category 1:Very toxic to aquatic life with long lasting effects. EC50: 0.89 mg/L (Algae) (OECD 201)
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 (Na2(Sx)), reduced	No data available
	Ethyl acetate	Readily biodegradable. Water % Degradation: 69 (20 days) (Price KS et al. 1974)
	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 (Na2(Sx)), reduced	No data available
	Ethyl acetate	Low bioaccumulation potential. BCF: 30 (Freitag D et al. 1985)
	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	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 (Na2(Sx)), 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 Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Safe handling and disposal methods This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. 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/ADG	IMDG/ADN	IATA/ICAO
14.1	**UN number**	Not classified	Not classified	Not classified
14.2	**UN proper shipping name**	Not classified	Not classified	Not classified
14.3	**Transport hazard class(es)**	Not classified	Not classified	Not classified
14.4	**Packing group**	Not classified	Not classified	Not classified
14.5	**Environmental hazards**	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6	**Special precautions for user**	See Section: 2		
14.7	**Transport in bulk according to IMO instruments**	Not applicable		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question

15.2 International regulations

Montreal Protocol / Stockholm Convention / Rotterdam Convention / Basel Convention / MARPOL	Not listed
IARC Monographs	Not applicable

15.3 National regulations

Australian Inventory of Chemical Substances	Listed: Ethyl acetate Titanium dioxide 3-aminopropyltriethoxysilane
NICNAS - Priority Existing Chemicals	Not listed
NICNAS - IMAP Framework	Listed: Ethyl acetate (Tier I: Environment Assessment, Tier II: Human Health Assessment) Titanium dioxide (Tier I: Environment Assessment, Tier II: Human Health Assessment)
NICNAS - High Volume Industrial Chemical List	Listed: Ethyl acetate Threshold Range: Between 1,000 and 9,999 tonnes) Titanium dioxide (Threshold Range: Between 100,000 and 999,999 tonnes)
National Pollutant Inventory	Listed: Ethyl acetate (Threshold Category = 1, Threshold = 10 tpa)

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)	Not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable V1.0.

Version	1.0
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References:

Existing Safety Data Sheet (SDS).
EU Harmonised Classification(s) for Ehyl acetate(CAS No. 141-78-6) and 3-aminopropyltriethoxysilane (CAS No. 919-30-2),
Existing ECHA registration(s) for Ehyl 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

Literature References:

1. Price KS, Waggy GT, Conway RA.1974. Brine Shrimp bioassay and seawater BOD of petrochemicals. JWPCF 46(1), p63-77.
2. Freitag D; Ballhorn L; Geyer H; Korte F. 1985. "Environmental hazard profile of organic chemicals". Chemosphere 14, 1589 - 1616.

GHS Classification	Classification Procedure
Hazardous to the aquatic environment, Chronic, Category 3	Summation Calculation
Hazardous to the aquatic environment, Acute, Category 3	Summation Calculation

This Safety Data Sheet was prepared in accordance with Code Of Practice For The Preparation Of Safety Data Sheets For Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Legend

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

Hazard Class / Classification code:	Hazard Statement(s)
Flam. Liq. 2; Flammable liquid, Category 2	H225: Highly flammable liquid and vapour.
Acute Tox. 4; Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin Corr. 1B; Skin corrosion/irritation, Category 1B	H314: Causes severe skin burns and eye damage.
Skin Irrit. 2 ; Skin corrosion/irritation, Category 2	H315: Causes skin irritation.
Skin Sens. 1; Skin Sensitisation, Category 1	H317: May cause an allergic skin reaction.
Eye Dam. 1; Eye Damage, Category 1	H318: Causes serious eye damage.
Eye Irrit. 2; Serious eye damage/irritation, Category 2	H319: Causes serious eye irritation.
STOT SE 3; Specific target organ toxicity — single exposure, Category 3	H335: May cause respiratory irritation.

STOT SE 3; Specific target organ toxicity — single exposure, Category 3	H336: May cause drowsiness or dizziness.
Aquatic Acute 1; Hazardous to the aquatic environment, Acute, Category 1	H400: Very toxic to aquatic life.
Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic , Category 1	H410: Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2	H411: Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic , Category 3	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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