

# SAFETY DATA SHEET

## M-COAT JA PART A

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

Date of issue: 09/08/2022  
Date of First Issue: : 09/08/2022  
Version: 1.0

### SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier**  
Product name M-Coat JA Part A  
CAS No. Not applicable - Mixture
- 1.2 Recommended use of the chemical and restrictions on use**  
Identified Use(s) Sealants - For professional users only.  
Uses advised against Anything other than the above.
- 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)  
English  
Languages spoken

### 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**  
Acute toxicity – Oral – Category 4  
Skin sensitisation – Category 1  
Specific target organ toxicity - Repeated exposure - Category 1  
Hazardous to the aquatic environment, Acute - Category 2  
Hazardous to the aquatic environment, Chronic - Category 1
- 2.2 GHS label elements, including precautionary statements**  
Product name M-Coat JA Part A  
Hazard Pictogram(s)  
    
Health Hazard      Exclamation mark      Environment  
Signal Word(s) DANGER  
Hazard Statement(s)  
H302: Harmful if swallowed.  
H317: May cause an allergic skin reaction.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H401: Toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

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### Precautionary Statement(s)

P260: Do not breathe vapour.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P314: Get medical advice/attention if you feel unwell.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P391: Collect spillage.  
P501: Dispose of contents in accordance with local, state or national legislation.

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
Manganese dioxide	-	15 - 40	1313-13-9	215-202-6	Acute toxicity – Oral – Category 4 Acute toxicity – inhalation – Category 4 Specific target organ toxicity - Repeated exposure- Category 1
Terphenyl, hydrogenated	-	10 - 30	61788-32-7	262-967-7	Hazardous to the aquatic environment, Chronic, Category 2
Bis (piperidinothiocarbonyl) tetrasulphide	Piperidine, 1,1'-(tetrathiodicarbonothioyl)bis-; Dipentamethylenethiuram tetrasulfide	1 - 5	120-54-7	204-406-0	Skin sensitisation – Category 1 Hazardous to the aquatic environment, Chronic, Category 2
Terphenyl	-	1 - 5	26140-60-3	247-477-3	Hazardous to the aquatic environment, Acute, Category 1 Hazardous to the aquatic environment, Chronic, Category 1 M-factor (Chronic): 10

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

No action should be taken involving personal risk. Ensure adequate ventilation. Do not breathe vapour. Wear suitable protective clothing and gloves. Avoid

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Inhalation	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).
Skin contact	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.
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.
<b>4.2 Most important symptoms/effects, acute and delayed</b>	Harmful if swallowed. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.
<b>4.3 Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

<b>5.1 Extinguishing media</b>	
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.
<b>5.2 Specific hazards arising from the chemical</b>	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.
<b>5.3 Special protective actions for fire-fighters</b>	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.
<b>5.4 Hazchem Code</b>	Not applicable

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	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.
<b>6.2 Environmental precautions</b>	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.
<b>6.3 Methods and material for containment and cleaning up</b>	
<b>Small spillages:</b>	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 (2008/98/EEC).
<b>Large spillages:</b>	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 (2008/98/EEC).
<b>6.4 Reference to other sections</b>	See Section: 8,13

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### SECTION 7: HANDLING AND STORAGE

- 7.1 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.
- 7.2 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 measures Store above (°C): 5 (41 °F)  
Incompatible materials Stable under normal conditions.
- 7.3 Specific end use(s)** Keep away from: Oxidizing agents and Acids. Keep from direct sunlight. 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/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Advisory carcinogen category	Other advisory information	Notes
Manganese, compounds (as Mn)	-	-	-	1	-	3	-	-	-
Magnesite	-	546-93-0	-	10	-	-	-	-	(a)
Talc	-	14807-96-6	-	2.5	-	-	-	-	-
Terphenyls	-	26140-60-3	0.5 Peak limitation	4.7 Peak limitation	-	-	-	-	-

Source: Safe Work Australia Workplace Exposure Standards for Airborne 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. 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.

##### 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. 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.

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.

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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.

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 AND SAFETY CHARACTERISTICS

### 9.1 Basic physical and chemical properties

Physical state	Liquid
Colour	black
Odour	Not determined.
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	> 37.78 °C
Flammability	not applicable - Liquid
Lower and upper explosion limit/flammability limit	No data available
Flash point	98.89 °C [Closed cup]
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Insoluble in cold water.
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	0.27 kPa (2.03 mm Hg) @ 20°C
Density and/or relative density	1.65
Relative vapour density	Terphenyl, hydrogenated: 7.95 (Air = 1)
Particle characteristics	not applicable

### 9.2 Other information

Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Viscosity	> 0.21 cm <sup>2</sup> /s @ 40°C

## 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: Oxidizing agents and Acids.
10.6 Hazardous decomposition products	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides, metal oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity - Ingestion	Acute Tox. 4; H302: Harmful if swallowed. Acute Toxicity Estimate Mixture Calculation: Estimated LD50: >300 - ≤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 - Dermal	Based upon the available data, the classification criteria are not met.

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<b>Skin corrosion/irritation</b>	Acute Toxicity Estimate Mixture Calculation: Estimated LD50 >2000 mg/kg bw/day.
<b>Serious eye damage/irritation</b>	Based upon the available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Based upon the available data, the classification criteria are not met.
Bis (piperidinothiocarbonyl) tetrasulphide	Skin Sens. 1; H317: May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Skin Sens. 1; H317: May cause an allergic skin reaction.
<b>Carcinogenicity</b>	EU classification and labelling inventory, ≥30 Notifiers
<b>Reproductive toxicity</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based upon the available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based upon the available data, the classification criteria are not met.
Manganese dioxide	STOT RE 1; H372: Causes damage to organs through prolonged or repeated exposure: brain and central nervous system (Inhalation)
	Repeat dose studies have shown the potential to cause neurotoxicity (inhalation) Roels et al (1992)
<b>Aspiration hazard</b>	Based upon the available data, the classification criteria are not met.
<b>Information on likely routes of exposure</b>	
Inhalation	Unlikely – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin contact	Possible – accidental exposure
Eye contact	Unlikely – accidental exposure
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	not applicable
<b>Delayed and immediate effects and also chronic affects from short and long term exposure</b>	Harmful if swallowed. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.
<b>Numerical measures of toxicity (such as acute toxicity estimates)</b>	Acute Toxicity Estimate Mixture Calculation: Estimated LD50: >300 - ≤2000 mg/kg bw/day.
<b>Interactive effects</b>	None Known
<b>11.2 Other information</b>	None Known
NTP Report on Carcinogens	No components listed.
IARC Monographs	No components listed.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Mixture: Hazardous to the aquatic environment, Acute - Category 2 H401: Toxic to aquatic life. Hazardous to the aquatic environment, Chronic - Category 1 H410: Very toxic to aquatic life with long lasting effects.
Terphenyl, hydrogenated	Aquatic Chronic. 2: H411: Toxic to aquatic life with long lasting effects.
Bis (piperidinothiocarbonyl) tetrasulphide	Aquatic Chronic. 2: H411: Toxic to aquatic life with long lasting effects.
Terphenyl	Aquatic Acute 1; H400: Very toxic to aquatic life. Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects. M-factor (Chronic): 10
<b>12.2 Persistence and degradability</b>	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.
<b>12.3 Bioaccumulative potential</b>	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

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12.4	<b>Mobility in soil</b>	Terphenyl	The substance has low potential for bioaccumulation. BCF: 25 - 129 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
12.5	<b>Other adverse effects</b>	Terphenyl	The substance has low mobility in soil. LogKoc: 4.2 – 5.8 None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Safe handling and disposal methods</b>	This material and its container must be disposed of as hazardous waste (2008/98/EEC). 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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### SECTION 14: TRANSPORT INFORMATION

	<b>ADR/RID/ADG</b>	<b>IMDG/ADN</b>	<b>IATA/ICAO</b>
14.1	<b>UN number</b>	UN 3082	UN 3082
14.2	<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyl)
14.3	<b>Transport hazard class(es)</b>	9	9
14.4	<b>Packing group</b>	III	III
14.5	<b>Environmental hazards</b>	ENVIRONMENTALLY HAZARDOUS	CLASSIFIED AS A MARINE POLLUTANT. ENVIRONMENTALLY HAZARDOUS
14.6	<b>Special precautions for user</b>	See Section: 2	
14.7	<b>Transport in bulk according to IMO instruments</b>	Not applicable	

### SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations specific for the product in question</b>	
15.2	<b>International regulations</b>	
	Montreal Protocol / Stockholm Convention / Rotterdam Convention / Basel Convention / MARPOL	Not listed
	IARC Monographs	Not applicable
15.3	<b>National regulations</b>	
	Australian Inventory of Chemical Substances	All chemicals listed
	NICNAS - Priority Existing Chemicals	Not listed
	NICNAS - IMAP Framework	Listed: Manganese dioxide (CAS Number: 1313-13-9) (Tier II: Human Health Assessment) Zeolites (CAS Number: 1318-02-1) Tier I: Human Health Assessment, Tier I: Environment Assessment Talc (CAS Number:14807-96-6) Tier I: Human Health Assessment, Tier I: Environment Assessment Magnesium Carbonate (CAS Number:546-93-0) (Tier I: Human Health Assessment)
	NICNAS - High Volume Industrial Chemical List	Listed: Zeolites (CAS Number: 1318-02-1) (Threshold Range: Between 1,000 and 9,999 tonnes) Talc (CAS Number:14807-96-6) (Threshold Range: Between 1,000 and 9,999 tonnes)
	National Pollutant Inventory	Listed:



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The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Manganese dioxide (CAS Number: 1313-13-9) (Manganese compound - Threshold Category = 1, Threshold = 10 tpa)  
Not listed

### SECTION 16: OTHER INFORMATION

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

**Version** 1.0  
**Revision date** 05/08/2022  
**Date of First Issue** 05/08/2022

#### References:

Existing Safety Data Sheet (SDS).

Harmonised Classification(s) for 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).

The classification and labelling inventory for Bis (piperidinothiocarbonyl) tetrasulphide (CAS No. 120-54-7), Polyphenyls, quater- and higher, partially hydrogenated (CAS No. 68956-74-1)

#### Literature reference

1. Roels HA, Ghyselen P, Buchet JP, et al. 1992. Assessment of the permissible exposure level to manganese in workers exposed to manganese dioxide dust. Br J Ind Med 49:25-34.

GHS Classification	Classification Procedure
Acute toxicity – Oral – Category 4	Acute Toxicity Estimate (ATE) Calculation.
Skin sensitisation – Category 1	Threshold Calculation
Specific target organ toxicity - Repeated exposure- Category 1	Threshold Calculation
Hazardous to the aquatic environment, Acute - Category 2	Summation Calculation
Hazardous to the aquatic environment, Chronic - Category 1	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 classification / Classification code:

Acute Tox. 4; Acute Toxicity, Category 4  
Skin Sens. 1; Skin Sensitisation, Category 1

#### Hazard Statement(s)

H302: Harmful if swallowed.  
H317: May cause an allergic skin reaction.



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Acute Tox. 4; Acute Toxicity, Category 4	H332: Harmful if inhaled.
STOT RE 1; Specific target organ toxicity — repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Aquatic Acute 1; Hazardous to the aquatic environment, acute, Category 1	H400: Very toxic to aquatic life.
Aquatic Acute 2; Hazardous to the aquatic environment, Acute, Category 2	H401: 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.

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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