

SAFETY DATA SHEET

M-Coat B


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

Date of issue: 24/02/2023
Date of First Issue: 24/02/2023
Version: 1.0

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier	
Product name	M-Coat B
CAS No.	Not applicable - Mixture
1.2 Recommended use of the chemical and restrictions on use	
Identified Use(s)	PC9a Coatings and paints, thinners, paint removers
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 +1 919-365-3800 mm.us@vpgsensors.com
Telephone	
E-mail (competent person)	
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	Flammable liquid - Category 2; H225 Serious eye damage/ Eye Irritation - Category 2A; H319 Specific target organ toxicity - Single exposure - Category 3; H335 Specific target organ toxicity - Single exposure - Category 3; H336 Carcinogenicity - Category 1B; H350
2.2 GHS label elements, including precautionary statements	
Product name	M-Coat B
Hazard Pictogram(s)	 Flame Health hazard Exclamation mark
Signal Word(s)	DANGER
Hazard Statement(s)	H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H350: May cause cancer.

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Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P235: Keep cool.
P370+P378: In case of fire: Use carbon dioxide, dry chemical, foam or waterspray to extinguish.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards which do not result in classification AUH066: Repeated exposure may cause skin dryness or cracking.
May produce an allergic reaction in persons already sensitised.

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
Ethyl methyl ketone	Butanone; 2-Butanone; Methylethylketone; (MEK)	70 – <75	78-93-3	201-159-0	Flammable Liquid - Category 2; H225 Eye Damage/Irritation - Category 2A; H319 Specific target organ toxicity — single exposure - Category 3; H335 Specific target organ toxicity — single exposure – Category 3; H336 AUH066
Formaldehyde	Formaldehyde; Formic aldehyde; Paraform; Oxymethylene	0.1 - < 0.15	50-00-0	200-001-8	Acute toxicity - Category 3; H301 Acute toxicity - Category 3; H311 Acute toxicity - Category 3; H330 Skin corrosion/irritation - Category 1B; H314 Skin Sensitisation - Category 1; H314 Germ cell mutagenicity, Category 2; H341 Carcinogenicity - Category 1B; H350

For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of necessary first-aid measures

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Self-protection of the first aider	Do not breathe vapour. 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 person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor 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: Rinse mouth. Make victim drink plenty of water. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.
4.2 Most important symptoms/effects, acute and delayed	Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. Repeated exposure may cause skin dryness or cracking. May produce an allergic reaction in persons already sensitised.
4.3 Indication of immediate medical attention and special treatment needed, if necessary Notes to a physician:	Treat symptomatically. IF SWALLOWED: Material may be aspirated into the lungs and cause chemical pneumonitis

SECTION 5: FIREFIGHTING MEASURES

5.1 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.
5.2 Specific hazards arising from the chemical	Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon dioxide and Carbon monoxide. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Sealed containers may rupture explosively if hot.
5.3 Special protective actions 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. Avoid run off to waterways and sewers.
5.4 Hazchem code	●2YE

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Caution - spillages may be slippery. Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protective equipment as required. See Section: 8. Do not breathe vapour.
6.2 Environmental precautions	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. 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	Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste
6.4 Reference to other sections	See Section: 8,13

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SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Ensure operatives are trained to minimise exposures. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Do not breathe vapour. In case of inadequate ventilation wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. May form explosive mixture with air particularly in enclosed spaces. Take precautionary measures against static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Avoid all contact. Do not eat, drink or smoke when using this product.
- 7.2 Conditions for safe storage, including any incompatibilities** Ground/bond container and receiving equipment. Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. May form explosive mixture with air particularly in enclosed spaces. Keep away from direct sunlight.
- Storage temperature Ambient.
Storage measures Stable under normal conditions.
Incompatible materials Keep away from: Flammable liquid, Oxidizing agents, Corrosive Substances, Alcohols.
- 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/m ³)	STEL (ppm)	STEL (mg/m ³)	Advisory carcinogen category	Other advisory information	Notes
Methyl ethyl ketone (MEK)	MEK 2-Butanone	78-93-3	150	445	300	890	-	-	-
Formaldehyde	Formaldehyde; Formic aldehyde; Paraform; Oxymethylene	50-00-0	1	1.2	2	2.5	-	-	Carc. 2; Sen.

Source: Safe Work Australia Workplace Exposure Standards for Airborne Contaminants (2019)

8.1.2 Biological limit value

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Ethyl methyl ketone	78-93-3	Ethyl methyl ketone in urine	2 mg/L	End of shift	Ns

Source: 2021 ACGIH Biological Exposure Indices (BEIs)

Ns – Nonspecific

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. Local exhaust recommended. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Eyewash bottles should be available.

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. Contaminated clothing should be laundered before reuse. 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.

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Eye/ face protection



Wear eye protection with side protection (EN166). Wear protective eye glasses for protection against liquid splashes. Recommended: Safety spectacles/goggles/full face shield

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: Neoprene.

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.

Not applicable.

Thermal hazards

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	Physico-chemical properties of substance Methyl Ethyl Ketone
Physical state	Viscous liquid
Colour	Tan coloured
Odour	Ketone Odour
Melting point/freezing point	-86 °C
Boiling point or initial boiling point and boiling range	82.3 °C (Mixture)
Flammability	Not applicable - liquid mixture
Lower and upper explosion limit/flammability limit	LEL: 2.0 UEL: 10.0
Flash point	-9 °C [Closed cup]
Auto-ignition temperature	404 °C
Decomposition temperature	not determined
pH	not determined
Kinematic viscosity	not determined - Dynamic viscosity: 2.038 mPa s (25 °C)
Solubility	>10% (Water)
Partition coefficient n-octanol/water (log value)	0.3 (40 °C)
Vapour pressure	12.6 kPa (25 °C)
Density and/or relative density	0.81 g/cm ³ (H ₂ O = 1)
Relative vapour density	>1 (Air = 1)
Particle characteristics	Not applicable - liquid mixture
9.2 Other information	
Volatile Organic Compound Content	675 g/L
Evaporation rate	1 (BuAc = 1)

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	Highly flammable liquid and vapour. The vapour may be invisible, heavier than air and spread along ground. May form explosive mixture with air particularly in enclosed spaces.
10.4	Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.

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10.5	Incompatible materials	Flammable liquid, Oxidizing agents, Corrosive Substances, Alcohols, Strong Acids and Alkalis.
10.6	Hazardous decomposition products	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide.

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 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. Acute Toxicity Estimate Mixture Calculation: Estimated LD50 >2000 mg/kg bw/day.
Skin corrosion/irritation		Mixture: AUH066: Repeated exposure may cause skin dryness or cracking.
	Ethyl methyl ketone	AUH066: Repeated exposure may cause skin dryness or cracking. Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis. (Smith R & Mayers MR, 1944) Hazardous Chemical Information System (HCIS) EU Harmonised Classification / ECHA registration dossier
	Formaldehyde	Skin corrosion/irritation - Category 1B; H314: Causes severe skin burns and eye damage. Result: positive - Adverse effects observed Corrosive to skin. (rabbit) OECD 404 EU Harmonised Classification / ECHA registration dossier
Serious eye damage/irritation		Mixture: Serious eye damage/ Eye Irritation - Category 2A; H319: Causes serious eye irritation.
	Ethyl methyl ketone	Serious eye damage/ Eye Irritation - Category 2A; H319: Causes serious eye irritation.
Respiratory or skin sensitisation		Test Result: Irritating to eyes. (OECD 405) ECHA Registration Endpoint summary
Germ cell mutagenicity		Mixture: Based upon the available data, the classification criteria are not met.
Carcinogenicity		Mixture: Based upon the available data, the classification criteria are not met. Mixture: Carcinogenicity - Category 1B; H350: May cause cancer.
	Formaldehyde	Carcinogenicity - Category 1B; H350: May cause cancer. Result: positive - Adverse effects observed carcinogenic effect (Mouse) Hazardous Chemical Information System (HCIS) EU Harmonised Classification / ECHA registration dossier
Reproductive toxicity		Mixture: Based upon the available data, the classification criteria are not met.
STOT - single exposure		Mixture: Specific target organ toxicity — single exposure, Category 3; H335: May cause respiratory irritation. Specific target organ toxicity — single exposure, Category 3; H336: May cause drowsiness or dizziness.
	Ethyl methyl ketone	Specific target organ toxicity — single exposure, Category 3; H335: May cause respiratory irritation. Specific target organ toxicity — single exposure, Category 3; H336: May cause drowsiness or dizziness. Rats at all dose levels: gait and/or posture abnormalities. Higher dose groups some rats were comatose or prostrate within a few hours of dosing, with some animals being unconscious for 24 hours. (OECD 423) Hazardous Chemical Information System (HCIS) EU Harmonised Classification / ECHA registration dossier
STOT - repeated exposure		Mixture: Based upon the available data, the classification criteria are not met.
Aspiration hazard		Mixture: Based upon the available data, the classification criteria are not met.
Information on likely routes of exposure		
Inhalation		Unlikely – accidental exposure
Ingestion		Possible – accidental exposure
Skin contact		Possible – accidental exposure
Eye contact		Possible – accidental exposure

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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

Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. Repeated exposure may cause skin dryness or cracking. May produce an allergic reaction in persons already sensitised.

Numerical measures of toxicity (such as acute toxicity estimates)

None Known

Interactive effects

None Known

11.2 Other information

NTP Report on Carcinogens
IARC Monographs

None Known
No components listed.
Formaldehyde: Group 1

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Mixture: Based upon the available data, the classification criteria are not met
12.2	Persistence and degradability	No data for the mixture as a whole. Formaldehyde Readily biodegradable. (28 Days) (OECD 301 A) Ethyl methyl ketone Readily biodegradable. (28 Days) (OECD 301 F)
12.3	Bioaccumulative potential	No data for the mixture as a whole. Formaldehyde Does not bioaccumulate Log Kow 0.35 @ 20°C BCF <1 Ethyl methyl ketone Low bioaccumulative potential
12.4	Mobility in soil	EU ECHA Registration Endpoint summary No data for the mixture as a whole. Formaldehyde The substance is predicted to have high mobility in soil. Adsorption to solid soil phase is not expected. EU ECHA Registration Endpoint summary Ethyl methyl ketone The substance is predicted to have high mobility in soil. Adsorption to solid soil phase is not expected. EU ECHA Registration Endpoint summary
12.5	Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Safe handling and disposal 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. Containers of this material may be hazardous when empty since they retain product residue. Dispose of contents in accordance with local, state or national legislation.
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SECTION 14: TRANSPORT INFORMATION

	ADR/RID/ADG	IMDG/ADN	IATA/ICAO
14.1	UN number	UN 1193	UN 1193
14.2	UN proper shipping name	ETHYL METHYL KETONE (METHYL ETHYL KETONE)	ETHYL METHYL KETONE (METHYL ETHYL KETONE)
14.3	Transport hazard class(es)	3	3
14.4	Packing group	II	II
14.5	Environmental hazards	Not classified	Not classified
14.6	Special precautions for user	See Section: 2	
14.7	Transport in bulk according to IMO instruments	Not applicable	Not classified Marine Pollutant.

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Hazchem code

●2YE

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

All chemicals listed

NICNAS - Priority Existing Chemicals

All chemicals are not listed

NICNAS - IMAP Framework

Listed:

Ethyl methyl ketone (Tier I: Environment Assessment, Tier II: Human Health Assessment)

NICNAS - High Volume Industrial Chemical List

Listed:

Ethyl methyl ketone (Threshold Range: Between 1,000 and 9,999 tonnes)

Formaldehyde (Threshold Range: Between 10,000 and 996,999 tonnes)

National Pollutant Inventory

Listed:

Ethyl methyl ketone

Formaldehyde (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: V1.0 - not applicable

Version 1.0
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References:

References:

EU Harmonised Classification(s) for Ethyl methyl ketone (CAS No. 78-93-3) and Formaldehyde (CAS No. 50-00-0).

Existing ECHA registration(s) for Ethyl methyl ketone (CAS No. 78-93-3) and Formaldehyde (CAS No. 50-00-0)

Australia Hazardous Chemical Information System (HCIS)

GHS Classification	Classification Procedure
Flammable liquid - Category 2; H225	Flash Point [Open cup] Test Result/ Boiling Point (°C)
Serious eye damage/ Eye Irritation - Category 2A; H319	Threshold Calculation
Specific target organ toxicity - Single exposure - Category 3; H335	Threshold Calculation
Specific target organ toxicity - Single exposure - Category 3; H336	Threshold Calculation
Carcinogenicity - Category 1B; H350	Threshold 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

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EU	European Union
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

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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