

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name MCU-MIOTOPCOAT

Synonyms MCU MIOTOPCOAT ● MIOTOPCOAT

1.2 Uses and uses advised against

Uses COATING • PAINT • TOPCOAT PAINT

1.3 Details of the supplier of the product

Supplier name MCU COATINGS PTY LIMITED

Address 31 Hayes Street, Sydney , NSW, 2089, AUSTRALIA

Telephone 1800 325 041

Emailinfo@mcu-coatings.com.auWebsitehttp://www.mcu-coatings.com.au

1.4 Emergency telephone numbers

Emergency 13 11 26 (PIC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Physical Hazards

Flammable Liquids: Category 3

Health Hazards

Skin Sensitisation: Category 1 Respiratory Sensitisation: Category 1

Environmental Hazards

Aquatic Toxicity (Chronic): Category 3

2.2 GHS Label elements

Signal word DANGER

Pictograms





Hazard statements

H226 Flammable liquid and vapour.H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H412 Harmful to aquatic life with long lasting effects.



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Prevention statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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/hearing protection.

P284 Wear respiratory protection.

Response statements

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P321 Specific treatment is advised - see first aid instructions.
P332 + P337 + P313 If skin or eye irritation occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage statements

P403 + P233 + P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Disposal statements

P501 Dispose of contents/container in accordance with relevant regulations.

2.3 Other hazards

No information provided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
TITANIUM DIOXIDE	13463-67-7	236-675-5	10 to 25%
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6	203-603-9	<20%
HEXAMETHYLENE DIISOCYANATE, OLIGOMERS	28182-81-2	500-060-2	<20%
N-BUTYL ACETATE	123-86-4	204-658-1	1 to 20%
2-HEPTANONE	110-43-0	203-767-1	1 to 10%
ETHYL ACETATE	141-78-6	205-500-4	<10%
ETHYLBENZENE	100-41-4	202-849-4	<10%
TALC	14807-96-6	238-877-9	2.5 to 10%
XYLENE	1330-20-7	215-535-7	1 to 10%
(2-METHOXYMETHYLETHOXY)PROPANOL	34590-94-8	252-104-2	<2.5%
1,2,4-TRIMETHYLBENZENE	95-63-6	202-436-9	<2.5%
ISOPHORONE DIISOCYANATE	4098-71-9	223-861-6	<2.5%
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	<2.5%
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (<0.1% W/W BENZENE)	64742-95-6	265-199-0	<2.5%
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE, OLIGOMERS	53880-05-0	500-125-5	<1%
ACRYLIC ACID, PROPYLENEBIS (OXYPROPYLENE) ESTER	42978-66-5	256-032-2	0.1 to 1%
HEXAMETHYLENE DIISOCYANATE (HMDI)	822-06-0	212-485-8	<0.5%
1-METHYL 1,2,2,6,6-PENTAMETHYLPIPERIDIN-4-YL DECANEDIOATE BIS(1,2,2,6,6-PENTAMETHYLPIPERIDIN-4-YL) DECANEDIOATE	1065336-91-5	915-687-0	<0.1%
ADDITIVE(S)	-	-	Remainder
MAGNESIUM CARBONATE	546-93-0	208-915-9	<2.5%



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4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or

an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

May cause sensitisation by inhalation and skin contact. Individuals with pre-existing respiratory impairment (eg asthmatics) or known sensitivities to isocyanates should avoid exposure.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways. Do not use water jets.

5.2 Special hazards arising from the substance or mixture

Flammable. May evolve toxic gases (carbon/ nitrogen oxides, isocyanates, cyanides, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, pilot lights, heaters, naked lights, etc when handling. Earth containers when dispensing fluids.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

•3Y

•3 Alcohol Resistant Foam is the preferred firefighting medium but, if it is not available, normal foam can be used.

Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.



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7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation and fire protection systems. Store between 5°C and 35°C.

7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
ingredient	Reference	ppm	mg/m³	ppm	mg/m³
1,2,4-Trimethylbenzene (as Trimethyl benzene)	SWA [AUS]	25	123		
1-Methoxy-2-propanol acetate	SWA [AUS]	50	274	100	548
2-(Methoxymethylethoxy) propanol	SWA [AUS]	50	308		
Butyl acetate	SWA [Proposed]	50	270	200	950
Ethyl acetate	SWA [AUS]	200	720	400	1440
Ethyl benzene	SWA [AUS]	100	434	125	543
Ethyl benzene	SWA [Proposed]	20	87		
Isocyanates, (pol-) (as-NCO)	SWA [Proposed]		0.0001		
Isocyanates, all (as-NCO)	SWA [AUS]		0.02		0.07
Magnesite (a)	SWA [AUS]		10		
Methyl n-amyl ketone	SWA [AUS]	50	233		
Mineral spirits	SWA [Proposed]	50	295	100	593
Quartz (respirable dust)	SWA [AUS]		0.05		
Quartz (respirable dust) (Precautionary advice)	WorkSafe VIC		0.02		
Talc (no asbestos fibres)	SWA [AUS]		2.5		
Talc, (containing no asbestos fibres)	SWA [Proposed]		2		
Titanium dioxide (a)	SWA [AUS]		10		
Titanium dioxide (inhalable)	SWA [Proposed]		1		
Trimethylbenzene (all isomers)	SWA [Proposed]	20	100		
Xylene	SWA [AUS]	80	350	150	655
n-Butyl acetate	SWA [AUS]	150	713	200	950

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard. Maintain vapour levels below the

recommended exposure standard.

PPE

Wear splash-proof goggles. Eye / Face Hands Wear PVA or viton® gloves.

Wear coveralls. If spraying, wear impervious coveralls. **Body**

Wear a Type A (Organic vapour) respirator. If spraying, wear an Air-line respirator. Respiratory











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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance LIQUID

Odour CHARACTERISTIC ODOUR

Flammability FLAMMABLE Flash point 38.5°C

Boiling point NOT AVAILABLE
Melting point NOT AVAILABLE
Evaporation rate NOT AVAILABLE
pH NOT AVAILABLE
Vapour density NOT AVAILABLE

Relative density 1.7

Solubility (water) **INSOLUBLE** Vapour pressure **NOT AVAILABLE** Upper explosion limit **NOT AVAILABLE** Lower explosion limit **NOT AVAILABLE** Partition coefficient NOT AVAILABLE **Autoignition temperature** NOT AVAILABLE Decomposition temperature NOT AVAILABLE **Viscosity** NOT AVAILABLE **Explosive properties** NOT AVAILABLE Oxidising properties **NOT AVAILABLE Odour threshold NOT AVAILABLE**

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid exposure to moisture.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), alcohols, amines, heat and ignition sources. Reacts with water or moisture, generating carbon dioxide, which may cause container rupture.

10.6 Hazardous decomposition products

May evolve toxic gases (carbon/ nitrogen oxides, isocyanates, cyanides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.



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Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
TITANIUM DIOXIDE	5000 mg/kg (rat)		3.43 - 6.82 mg/L air (rat)
2-METHOXY-1-METHYLETHYL ACETATE	8532 mg/kg (rat)	> 5000 mg/kg (rabbit)	
HEXAMETHYLENE DIISOCYANATE, OLIGOMERS	> 5,000 mg/kg (rat)	> 2,000 mg/kg (rat)	151 mg/m³ (rat)
N-BUTYL ACETATE	10760 mg/kg (rat)	14112 mg/kg (rabbit)	> 21 mg/L/4hrs (rat)
2-HEPTANONE	730 mg/kg (mouse)	12.6 ml/kg (rabbit)	
ETHYL ACETATE	4100 mg/kg (mouse)		1600 ppm/8hrs (rat)
ETHYLBENZENE	3500 mg/kg (rat)	17800 mg/kg (rabbit)	17.8 mg/l/4 hours (rat)
TALC	> 5000 mg/kg (rat)		
XYLENE	> 2000 mg/kg (rat) (AICIS)	> 1700 mg/kg (rabbit)	20 mg/L/4h (rat) (AICIS)
(2-METHOXYMETHYLETHOXY)PROPANOL	> 5,000 mg/kg (rat)	9,510 mg/kg (rabbit)	
1,2,4-TRIMETHYLBENZENE	6000 mg/kg (rat)		18 g/m³/4hrs (rat)
ISOPHORONE DIISOCYANATE	4825 mg/kg (rat)	1060 mg/kg (rat)	123 mg/m³/4 hours (rat)
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (<0.1% W/W BENZENE)	> 5000 mg/kg (OECD TG 401)	> 2000 mg/kg (OECD TG 402)	> 5610 mg/m3 (OECD TG 403)
ACRYLIC ACID, PROPYLENEBIS (OXYPROPYLENE) ESTER	6,800 mg/kg (rat)	> 2,000 mg/kg (rabbit)	
HEXAMETHYLENE DIISOCYANATE (HMDI)	350 mg/kg (mouse)	570 uL/kg (rabbit)	0.124 mg/L/4h (rat) (vapour)

Skin Contact may result in irritation, redness, rash and dermatitis.

Eye Contact may result in irritation, lacrimation, pain and redness.

Sensitisation May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if

inhaled. Exposure to low concentrations of isocyanates may cause asthma-like symptoms, including

tightness of the chest, coughing, wheezing and shortness of breath.

Mutagenicity Insufficient data available to classify as a mutagen.

Carcinogenicity Not classified as a carcinogen. Due to the low quantity of free isocyanates within the product, the risk of

carcinogenic effects is significantly reduced as the isocyanates are reacted within the solution and dissipate into their constituent elements. Titanium dioxide and ethylbenzene are classified as possibly carcinogenic to

humans (IARC Group 2B).

Reproductive Insufficient data available to classify as a reproductive toxin.

STOT - single exposure

Over exposure may result in irritation of the nose and throat, coughing, nausea, dizziness and headache.

High level exposure may result in breathing difficulties and unconsciousness.

STOT - repeated exposure

Repeated exposure may damage the respiratory system resulting in irritation of the respiratory tract and lung tissue damage. Repeated exposure to some solvents have been reported to cause adverse effects to the

central nervous system (CNS), liver and kidney.

Aspiration Aspiration into the lungs may result in chemical pneumonitis and pulmonary oedema.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

Avoid contamination of drains and waterways.

13. DISPOSAL CONSIDERATIONS



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13.1 Waste treatment methods

Waste disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site.

Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental

damage may result.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1263	1263	1263
14.2 Proper Shipping Name	PAINT	PAINT	PAINT
14.3 Transport hazard class	3	3	3
14.4 Packing Group	III	III	III

14.5 Environmental hazards

Not a Marine Pollutant.

14.6 Special precautions for user

 Hazchem code
 ●3Y

 GTEPG
 3C1

 EmS
 F-E, S-E

15. REGULATORY INFORMATION

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

Poison schedule Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

16. OTHER INFORMATION

Additional information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

Spillage decontaminants for isocyanates: For TDI or HMDI, use a mixture of sawdust (20%), silica sand (or china clay or Fuller's Earth) (40%) and a breakdown solution (40%). The breakdown solution is made up of water (90%), non-ionic surfactant (2%) and concentrated ammonia (8% v/v). For spillage of any other isocyanate a solid absorbent of silica sand or sawdust may be used.

ChemAlert.

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PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH FEFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

Prepared by

Risk Management Technologies 5 Ventnor Ave, West Perth Western Australia 6005 Phone: +61 8 9322 1711 Fax: +61 8 9322 1794

Fax: +61 8 9322 1794 Email: info@rmt.com.au Web: www.rmtglobal.com

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