



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name: CM SPRAY PAINT

Intended Use: Solvent-Based Protective & Decorative Paint

Distributed By: CMPI SDN. BHD.
No. 40 & 42, Jalan Mutiara 6/4,
Taman Mount Austin,
Johor Bahru, Johor.

Telephone/Fax Number: +607 – 3548149 / +607 – 3548140

2. HAZARDOUS COMPONENT IDENTIFICATION

Name	CAS No	Quantity(%)	Hazard Classification
Dimethyl ether	115 - 10 - 6	35 – 45	R12, S9, S16, S33
Ethyl acetate	141 - 78 - 6	20 – 30	R11, R20, R22, R36, R37, R38,R66 R67, S2, S16, S23, S25,S29, S33

3. HAZARDS IDENTIFICATION

CONTACT WAY AND SYMPTOM

Eye Contact: Cause severe eye irritation and blurred vision.

Inhalation: Harmful by inhalation. Vapour may cause drowsiness and dizziness.

Skin Contact: Irritating to skin.Repeated exposure may cause skin dryness and cracking.

Ingestion: Harmful if swallowed.

PHYSICAL AND CHEMICAL HAZARDS/ FIRE AND EXPLOSION HAZARDS

High hazard. Product can release vapours that can readily form mixtures flammable at temperatures or above the flash point.

Static discharge. Product can accumulate static charges, which can cause an incendiary electrical discharge.

4. FIRST – AID MEASURES

Eye Contact:	Immediately flush eyes with large amount of water for at least 15 minutes or until irritation subsides. Obtain medical attention if necessary.
Skin contact:	Immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes. If irritation persist, get medical attention.
Inhalation:	Remove to fresh air immediately. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Keep at rest. Obtain medical attention if necessary.
Ingestion:	DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention if necessary.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Carbon dioxide, foam or dry chemical type recommended.
Fire fighting advice:	Use water spray to cool fire-exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel. If possible, isolate from heat, electrical equipments, sparks and open flames. Use foam or dry chemical type extinguishers to extinguish fire.
Special Information:	Avoid spraying water directly into storage containers. Closed containers may explode when exposed to extreme heat. Avoid spreading burning liquid with water, isolated liquid.
Special information:	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or product of combustion.

6. ACCIDENTLY RELEASE MEASURES

Person related precautionary measures:	Avoid substance contact with eye. Do not inhale vapours. Ensure supply of fresh air in enclosed room. Use personel protective equipment, e.g. respirators, eye protection, gloves and safety shoes.
Environment protection measures:	Eliminate sources of ignition Keep public away. Contain spilled liquid with sand or other non-combustible absorbent materials. Wash area and prevent run-off into drains and sewerage system. Advice authorities if substance has entered a watercourse or sewer or has Contaminated soil or vegetation.
Procedure for Cleaning:	Clean up all spills immediately. Absorb spill with absorbed and inert materials, then place in container. Disposal in accordance to local regulations.

7. HANDLING AND STORAGE

Handling :	Keep out of reach children. Handle containers with care. Open slowly in order to control possible pressure release. Do not pressurize containers. Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eye. For personal protection, see section 8. Use only in areas from which all naked lights and other sources of ignition have been excluded. Protect from frost and extremes of temperature.
Storage:	Keep containers tightly closed, Store in cool, dry and well-ventilated place at temperature between 20 degree C to 40 degree C away from heat and source of ignition. Containers that are opened should be properly released and kept upright to prevent leakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES:

Provide exhaust ventilation or other engineering control to keep the airborne concentrations of vapours below their respective occupational exposure limits.
Ensure eyewash stations and safety showers are close to the workstation location.

OCCUPATIONAL EXPOSURE LIMITS:

	TLV-TWA (ACGIH)	TLV-TWA (ACGIH)	PEL (OSHA)	PEL (OSHA)
Ingredient	ppm	mg/m ³	ppm	mg/m ³
Dimethyl ether	500	-	-	-
Ethyl acetate	-	-	400	-

PERSONAL PROTECTION MEASURES

Respiratory protection:	Use of NIOSH-approved respirators with organic vapour cartridges is recommended.
Hand protection:	Use of solvent resistant type or chemical resistant type of protective gloves is recommended.
Eye protection:	Use of safety glasses or goggles with side shields is recommended.
Skin / body protection:	Wear chemical resistant clothes and safety shoes when handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state) :	Liquid
Colour :	Follow the colour card
Odour :	Aromatic hydrocarbon odour
Vapour pressure:	Not available
Vapour density :	Not available
Water solubility :	Insoluble
Ph :	Not available
Density (kg/l) :	0.87 – 1.10 (Depending on colour)
Boiling Point (°C) :	Not available
Melting point (°C) :	Not available
Flash point (° C) :	(-16) – (-20)
Auto ignition temperature (° C) :	370 – 375
Upper flammability or explosive limit:	Not available
Lower flammability or explosive limit :	Not available
Evaporation rate :	Not available
Other properties :	Not available

10. STABILITY AND REACTIVITY

Stability:	The product is stable under recommended storage and handling conditions (See section 7)
Conditions to avoid:	DO NOT expose to extreme heat. Ignition sources or sparks. To prevent the creation of flammable concentration of vapour in air, good natural ventilation and if necessary, local exhaust ventilation , should be provided. The accumulation of dry over spray, contaminated rags, etc may result in spontaneous combustion. Good housekeeping standard plus the regular and safe removal of waste materials will minimize the risk.
Hazardous decomposition product :	When exposed to high temperature may produce hazardous decomposition product such as carbon monoxide and dioxide, smoke and oxides of nitrogen.

Materials to avoid: Keep away from oxidizing agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions.
(Incompatibility)

11. TOXICOLOGICAL INFORMATION

There are no data available on the product itself.

ACUTE EFFECT:

Eye contact : May be an eye irritant.

Skin contact : Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Inhalation: May vapour concentration above the recommended exposure levels may be irritating to the eye and the respiratory tract, may cause headaches and dizziness, could be anaesthetic and may have other central nervous system effects.

Ingestion: Harmful if swallowed.

CHRONIC EFFECT:

No information available on the product.

TOXICITY DATA:

Dimethyl ether: LC₅₀ (Inhalation, mouse): 386ppm (15mins) LC₅₀ (Inhalation, rat): 30g/m³

Ethyl acetate : LD₅₀ (Oral, rat) : 5620mg/kg LD₅₀ (Dermal, rabbit): >20ml/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity : May cause long-long term adverse effect in the aquatic environment.

Mobility : Do not allow to enter drains or watercourses.

Persistence/
Degradability : Biodegradability
No evidence of biodegradability.

Bio-accumulative potential : This product is not expected to bio-accumulate through food chains in the environment.

13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains and watercourses.

Wastes and empty containers should be treated and disposed of in accordance with national and local regulations.

Empty containers and packing should be taken to recycling, recovery or disposal through a suitably qualified or licensed contractor.

For small quantities, Do not pour leftover paint down the drain. Unwanted paint should be brushed out on newspaper, allowed to dry and then disposed of via domestic waster collection. Empty paints containers should be left open in a well-ventilated area to dry out before recycle, reuse and dispose.

14. TRANSPORT INFORMATION

Transport to be in accordance with ADR/RID for road/rail, IMDG for sea and IATA for Air.

Land transport :

Classified as Dangerous Goods by the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous Goods (RID) by Rail.

UN No :	1950
UN Class :	Class 2
UN Packing Group :	I
Proper Shipping Name:	AEROSOLS

Sea transport :

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

UN No :	1950
UN Class :	Class 2
UN Packing Group :	I
Proper Shipping Name:	AEROSOLS

Air transport :

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air.

UN No :	1950
UN Class :	Class 2
UN Packing Group :	I
Proper Shipping Name:	AEROSOLS

15. REGULATORY INFORMATION

Hazard classification :

F : Extremely flammable.

Risk phrases :

R11 :Highly flammable.

R12 :Extremely flammable.

R20 :Harmful by inhalation.

R22 :Harmful if swallow.

R36 :Irritating to eye.

R37 :Irritating respiratory system.

R38 :Irritating to skin.

R66 :Repeated exposure may cause skin dryness or cracking.

R67 :Vapour may cause drowsiness and dizziness.

Safety phrases :

S2 :Keep out of the reach of children.

S9 :Keep container in a well ventilated place.

S16 :Keep away from sources of ignition.

S23 :Do not breathe vapour.

S25 :Avoid contact with eyes.

S29 :Do not empty into drains.

S33 :Take precautionary measure against static discharge.

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness. Since the condition of handling, storage, use and disposal are beyond our control and may be beyond our knowledge, for this and other reasons, we make no guarantee of result and assume no liability for damages incurred by the use of this product. Please be reminded that all chemicals may present unknown health hazards and should be used with caution.