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# Srithana Perfect CO., LTD

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Consistent Supply for Consistent Production

### **Safety Data Sheet**

### PMA

### 1. Identification of the substance or mixture and of the supplier

Trade Name	: :	РМА
		Propylene Glycol Monomethyl Ether Acetate
Material Uses		Solvent for printing inks, paints and resin.
Supplier		Srithana Perfect Company Limited 440/4-6 Prachacheun Rd. Bangsue Bangkok 10800 Thailand Telephone: +66 2 913 7999 (Auto 20 Lines) Fax: +66 2 586 0990-4
Website	:	www.srithanaperfect.com
E-mail	:	info@srithanaperfect.com
Hazards Identificat	ion	
GHS Classification	:	Flammable liquids : Category 3
Signal word	: :	Warning
Health Hazard	:	Irritating to respiratory system. Harmful by inhalation, in contact with skin and if swallowed.
Environmental Hazard	:	Not classified as dangerous under EU criteria.
GHS Pictogram	:	

GHS Hazard statements

H226 Flammable liquid and vapour.

440/4-6 PRACHACHEUN ROAD, BANGSUE, BANGKOK 10800 THAILAND TEL. 66 2 913 7999(HEAD OFFICE) , 66 2 192 1777 FAX. 66 2 586 0994 , 66 2 192 1661 www.srithanaperfect.com : info@srithanaperfect.com

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#### **GHS Precautionary statements**

Prevention	P210	Keep away from heat/sparks/open flames/hot
		surface and Nonsmoking
	P233	Keep container tightly closed.
	P240	Ground/Bond container and receiving equipment.
	P241	Use explosion-proof
		electrical/ventilating/lighting/equipment.
	P242	Use only non-sparking tools.
	P243	Take precautionary measure against static discharge.
	P280	Wear protective glove/eye protection/face
		protection.
Response	<u>If on skin</u>	
	P303+P361	Remove/Take off immediately all contaminated
	+P353	clothing. Rinse skin with water/shower.
	P370+P378	In case of fire: Use manufacturer/supplier or the
		competent authority to specify appropriate media
		for extinction.
Storage	P403+P235	Store in a well-ventilated place. Keep cool.
Disposal	P501	Disposal should be in accordance with applicable
		regional, national, and local laws and regulations.
		Local regulations may be more stringent than
		regional or national requirements and must be complied with.
Procautionar	y Pictograms	
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#### 3. Composition/Information on ingredients

Chemical Name	:	1,2-Propanediol Monomethyl Ether Acetate
Common Name	:	РМА
Synonyms Name	:	1-Methoxy-2-Propanol Acetate
CAS No.		108-65-6
UN No.		1993
Molecular Weight	:	132.16
Chemical Formula	:	С6Н12О3

#### 4. First-aid measures

Inhalation

Skin Contact

Eye Contact

Ingestion

Remove to fresh air. If the victim has difficulty breathing or tightness of the chest, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available.

Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

Do not induce vomiting and transport to nearest medical facility for additional treatment.



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#### 5. Fire-fighting measures

Suitable extinguishing media :

Specific hazard arising from the chemical

Special protective action for sine-fighters

**Protective Equipment.** 

Water spray or fog, Dry chemical powder, Alcoholresistant foam and Carbon dioxide.

May produce toxic fumes of carbon monoxide, carbon dioxide if burning.

Keep adjacent containers cool by spraying with water.

Wear full protective clothing and self-contained breathing apparatus.

#### 6. Accidental Release Measures

**Protective Measures** 

• Observe all relevant local and international regulations.

• Avoid contact with spilled or released material. Immediately

remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area.Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

• Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

#### **Clean-Up Methods**

• Small spillage (< 200 LT)

:

Transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.



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• large spillage (> 200 LT)

:

Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

**Other Information** 

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Handling And Storage

Handling

Storage

**Product Transfer** 

7.

Avoid contact with skin, eyes, and clothing. Do not breathe vapours. Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapour is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container with care in well-ventilated area. Do not empty into drains.

Must be stored in a diked (bunded) wellventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidizing agents, corrosives. Storage Temperature: Ambient.

Keep containers closed when not in use. Do not use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a nonintegral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing) all equipment.



Hand Protection

**Eye Protection** 

**Other Protection** 

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Recommended Material	ls :	For containers, or container linings use mild steel, stainless steel.
Additional Advice	:	Containers even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.
8. Exposure Contro	ls and Per	sonal Protection
Exposure Standard	:	Occupational Exposure Limits
		• TLV-TWA = 50 ppm (270 mg/m3) (Canada)
Engineering Controls Workplace		Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.
Respiratory Protection		Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

:

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:

Butyl rubber gloves, Nature rubber gloves, Neoprene rubber gloves, Nitrile rubber gloves.

Chemical splash goggles (chemical monogoggles).

Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.



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### 9. Physical and Chemical Properties

Appearance	:
Odour	:
pH Value	:
Boiling Point (oC)	:
Melting Point (oC)	:
Flash Point	:
Evaporating Rate	:
Lower/Upper Flammabili limits	ty :
Vapour Pressure (mmHg)	:
Specific Gravity	:
Density (g/cm3)	:
Vapour Density	:
Solubility in Water	:
Auto Ignition Temperatur	e :

Clear liquid. Specially odour. No data available. 146 °C @760 mmHg No data available. 46 °C 0.34 (n-Butyl Acetate = 1) 1.5 – 10%V

38 mmHg @ 20 ºC 0.966 – 0.971 @ 20 ºC (ASTM D4052) 0.964 – 0.969 @ 20 ºC (ASTM D4052) 4.6 (air = 1) 220 g/L @ 23 ºC 315 o C

### 10. Stability and Reactivity

Chemical Reactivity	:
Stability	:
Hazardous Polymerisation	:
Conditions to Avoid	:
Materials to Avoid	:
Hazardous Decomposition Products	:

Stable under normal conditions Stable under normal conditions. No.

Heat, flame, spark and other ignition sources.

Oxidizing agents, reducing agent, acid and alkalis.

Thermal decomposition is highly dependent on conditions. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. May form explosive peroxides.



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### 11. Toxicological Information

Acute Toxicity

LD50 Acute oral toxicity
LC50 Acute dermal Toxicity

:

:

Skin Irritation

Eye Irritation

8,532 mg/kg , (rat) >5,000 mg/kg , (rabbit)

Irritating to skin. Prolonged/repeated contact may cause permeated of the skin which can lead to dermatitis.

Irritating to eyes. Inflammation of the eye is characterized by redness, pain and itching.

Inhalation of vapours or mists may cause irritation to the respiratory system.

Carcinogenicity

**Respiratory Irritation** 

No data available.

### 12. Ecological Information

Acute Toxicity

• Fish (Daphnia)	:	Low toxicity : LC50 408 mg/l/48 h
Mobility	:	Slightly dissolves in water. If product enters soil, it will highly mobile and may contaminate groundwater.
Persistence / Degradability	:	Readily biodegradable.
Bio-accumulation	:	Not expected to bioaccumulate significantly



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### 13. Disposal Considerations

:

Material Disposal

Container Disposal

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classifications and disposal methods in compliance with applicable regulations.

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld unclenaed drums. Send to drum recoverer or metal reclaimer.

Local Legislation

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

### 14. Transport Information

Road/Rail Transport ADR/RID

● UN. Number	:	1993
• Class/Item	:	3
• Hazard Symbol	:	Flammable Liquid
• Proper Shipping Name	:	Flammable liquids, N.O.S. (PMA)
<ul> <li>Packing Group</li> </ul>	:	III

#### Maritime Transport IMO

● UN. Number	:	1993
• Class	:	3
<ul> <li>Packing Group</li> </ul>	:	III
• Hazard Symbol	:	Flammable Liquid



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Proper Shipping Name : Flammable liquids, N.O.S. (PMA)
Marine Pollutant : No

#### Air Transport IATA/ICAO

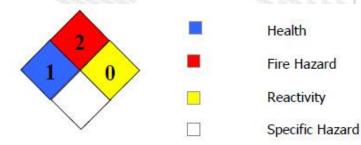
• UN. Number		1993	
• Class	:	3	
<ul> <li>Packing Group</li> </ul>	:	Ш	
• Hazard Symbol	:	Flammable Liquid	
• Proper Shipping Name	:	Flammable liquids, N.O.	S. (PMA)

### 15. Regulatory Information

EC Label Name	:	PMA (Propylene Glycol Monoethyl Ether Acetate)
EC Classification	: 9	Flammable.
EINECS (EC)	÷.,	203-603-9
EC Annex I Number		607-195-00-7
RETCS	: 3	AI8925000

### 16. Other Information

National Fire Protection Association (USA)



**MSDS** Distribution

The information in this document should be made available to all who may handle the product.

Disclaimer :

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

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