SAFETY DATA SHEET

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Product No.: PR2142

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name **ROLLERMATT**
1.2 Product Code: **PR2142**
1.3 Recommended Use and Restriction on Use: Cleaner for offset printing dampening roller.
1.4 Manufacturer: FUJIFILM Asia Pacific Pte. Ltd.
UEN: 199301558N
1.5 Address: 15 Tuas Avenue 7
Singapore 639270
1.6 Business Phone Number: (65) 6862 2116 (Operating hours: 0830-1730 hours Mondays-Fridays)
Fax: (65) 6861 4829
Emergency Phone Number: (65) 6863 8753

SECTION 2: HAZARDS IDENTIFICATION

2.1 GHS Classification:

Hazard Class	Hazard Category	Hazard Statement
Flammable liquid:	Category 3	H226: Flammable liquid and vapour.
Aspiration toxicity:	Category 1	H304: May be fatal if swallowed and enters airways.

2.2 GHS label elements
Pictograms:



2.3 Signal Word: Danger

2.4 Precautionary Statements:
Prevention
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosive-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response
P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P331: Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378: In case of fire: Use foam, powder, carbon dioxide, water spray or fog for extinction.

Storage
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

2.5 Disposal:
P501: Dispose of contents/containers in accordance with local/national regulations.

Other Hazards Which Do Not Result in Classification

Primary Hazards
- None.

Specific Hazards

- None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance or Preparation: This product is a mixture.

Chemical Name	CAS No.	% by Weight
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	> 60
1-methoxy-2-propanol	107-98-2	20 - 40
1,2,4-Trimethylbenzene	95-63-6	1 - 5

SECTION 4: FIRST-AID MEASURES

4.1 Inhalation:

- Move the victim into the fresh air, keep him or her warm and quiet, cover with a blanket, and send for immediate medical assistance.
- If the victim is not breathing or is breathing very weakly, loosen his or her clothing in order to secure an airway and begin artificial respiration.
- If the casualty is unconscious, but breathing, or is conscious but experiencing breathing difficulties, the provision of oxygen is effective. It is preferable to do this under medical supervision.
- No medicine other than oxygen may be dispensed. No food may be given to the victim without the physician's direction.

4.2 Skin Contact:

- If it is spilled on the skin, wash off with copious amounts of soap and water.
- Remove the contaminated clothes, shoes, etc., immediately. Cut the clothing off if necessary. Subsequently, rinse the skin with cool or tepid running water for at least 30 minutes.
- Immediate medical attention is required.

4.3 Eye Contact:

- If a contact lens is in place, remove it and wash the eye with warm running water for at least 15 minutes, unless the lens is firmly attached to the eye. Use physiological saline if it is readily available.
- Do not stop rinsing the eye. During the rinse, open the eyelid with your fingers so that water can reach under the eyelid. Send for an ophthalmologist immediately. An ophthalmological examination is absolutely essential because the possibility exists that there may be after effects even if there are no immediate pain or vision problems.

4.4 Ingestion:

- If it is swallowed, call a doctor immediately.
- Do not attempt to make the victim vomit.
- Rinse the mouth out thoroughly with water.
- Give the casualty 1-2 glasses of water to dilute the quantity of the substance in the stomach. (If milk is readily available, this can be given to the casualty after the water.)
- If the victim vomits of his/her own accord, bend his/her body so as to prevent vomit from entering the lungs. After vomiting, allow the victim to drink more water. Keep the victim warm and send for a doctor immediately and show SDS or label.

4.5 Likely Acute or Delayed:

- None

4.6 Note to Physician:

- None.

4.7 Protection of First-Aid Provider

- First-aid personnel should wear personal protection equipment when assisting the casualty.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Fire-Extinguishing Media:

- Foam (alcohol-resistant foam), powder and carbon dioxide are effective fire-extinguishing agents.

5.2 Unsuitable Extinguishing Media:

- Do not use water in a jet.

5.3 Hazardous Combustion Products

- Smoke, fume, oxides of carbon. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

5.4 Special Protective Actions for Fire Fighters:

- Cool the container(s) surface that is exposed to fire by spraying the surface with water.
- Keep adjacent container(s) cool by spraying with water.
- When fighting the fire, wear protective equipment (i.e., self contained breathing apparatus, respiratory masks, chemical protection suit, gloves, boots, goggles, etc.) as needed to avoid inhaling and/or skin contact with the chemical substance. Extinguish from the upwind direction.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Measures:

- Shut off or remove all ignition sources if without risk.
- Wear protective equipment (i.e., self contained breathing apparatus, respiratory masks, chemical protection suit, gloves, boots, goggles, mask, etc.) as needed to avoid inhaling and/or skin contact with the chemical and/or vapours, if any. Work upwind, if possible.
- See Section 8 of this SDS for Personal Protective Equipment.

6.2 Environmental Precautions:

- Do not allow to enter drains, sewers or water courses.
- The chemical substance in question should not be released into the environment (water, soil).

6.3 Spill Containment and Cleaning Up:

Minor Spills

- Avoid chemical contact by using personal protective equipment.
- Clean up spills immediately.
- Contain and absorb spill with sand, earth or other suitable absorbent material.
- Place spilled material in clean, dry, sealable, labelled container for disposal.

Major Spills (>155 gallon / 210 liter drum)

- Clear area of personnel and move upwind.
- Call SCDF or local Fire Brigade.
- Wear full body protective clothing with appropriate respiratory masks (including self contained breathing apparatus).
- Prevent, by any means available, spillage from entering drains or water course.
- Stop leak if safe to do so.
- Contain spill with sand, earth or other suitable absorbent material.
- Collect recoverable product into labelled containers for recycling.
- Neutralise/decontaminate residue.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- Transfer by mechanical means such as vacuum truck for recovery or safe disposal
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- If contamination of drains or waterways occurs, advise local Environmental Agency or Authority.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers. 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.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

7.2 Conditions for Safe Storage:

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area, away from heat and sources of ignition.
- Keep out of reach of children.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Post “No Smoking or Open Flames” sign in storage and use areas.
- All electrical equipment in storage area must be intrinsically safe or explosion-proof.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters/Occupational Exposure Limits:

Ingredient	CAS No.	PEL/OEL	Source
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	100 mg/m3 (17ppm)	TWA (Vapour) - Exxon Mobil
1-Methoxy-2-propanol	107-98-2	369 mg/m3 (100ppm)	ACGIH TWA
1-Methoxy-2-propanol	107-98-2	553 mg/m3 (150ppm)	ACGIH STEL
1,2,4-Trimethylbenzene	95-63-6	Not established	Not established

8.2 Appropriate Engineering Controls:

- Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator.

8.3 Personal Protective Equipment:

- Use the following protective equipment as needed:
- **Respiratory Protection:** Respiratory masks or Self contained breathing apparatus where needed.
- **Eye Protection:** Wear approved safety goggles.
- **Hand Protection:** Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves after its breakthrough time is reached. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
- **Skin Protection:** Apron and long sleeves are recommended. Wear suitable protective clothing.
- **Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance Physical State: Clear liquid
9.2 Colour: Colourless
9.3 Odour: Hydrocarbon
9.4 Odour Threshold: Not available

9.5	Property	Value	Notes
	Melting Point	Not applicable	
	Boiling Point	120 - 210 °C	
	Flash Point	46 °C	Closed cup ASTM D56
	Explosive Limit	0.6 Vol. %	Lower limit
	Explosive Limit	12.0 Vol. %	Upper limit
	Vapour Pressure	0.15 kPa	@ 20°C
	Vapour Density	Not available	Air=1
	Relative Density	0.890 - 0910	25°C
	Solubility in Water	Limited solubility in water	Water at 20°C
	Solubility (Other)	Not available	
	Partition Coefficient: n-octanol/water	Not available	
	Viscosity	Not available	@ 20°C
	pH	Not applicable	25°C
	Evaporation Rate	Not available	Butyl Acetate = 1
	Flammability (solid, gas)	Not available	
	Auto-Ignition Temperature	> 250 °C	
	Decomposition Temperature	Unknown	

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity/Incompatible Materials:
- Strong oxidising agents.

10.2 Chemical Stability:
- Stable under normal conditions of use and storage.

10.3 Possibility of Hazardous Reaction:
- Hazardous polymerisation will not occur.

10.4 Conditions to Avoid:
- Avoid heat, sparks, open flames and other ignition sources. Frozen to 0°C. Direct sunlight.

10.5 Hazardous Decomposition Products:
- At elevated temperatures, carbon dioxide (CO2), carbon monoxide (CO).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity on Product Mixture:
- Oral LD50 No data available.
- Dermal LD50 No data available.
- Inhalation LC50 No data available.

11.2 Acute Toxicity on Ingredients:

Chemical Name		Acute Oral (LD50 mg/kg)	Test Animal
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	7050	Rat
1-Methoxy-2-propanol	107-98-2	> 5000	Rat
1,2,4-Trimethylbenzene	95-63-6	5000	Rat

11.3 Skin Corrosion/Irritation:
- Mildly irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

11.4 Serious Eye Damage/Irritation:
- May cause mild, short-lasting discomfort to eyes.

11.5 Respiratory Organ or Skin Sensitisation:
- None.

11.6 Germ Cell Mutagenicity:
- None.

11.7 Carcinogenicity:
- None.

11.8 Reproductive Toxicity:
- None.

11.9 Specific Target Organ Toxicity:
- None.

11.10 Aspiration Hazard
- Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity of Product Mixture:
- Expected to be toxic to aquatic organisms. LC50 Daphnia: 23300 mg/l.

12.2 Ecotoxicity on Ingredients:

Chemical Name	CAS No.	Toxicity	Marine Organism
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	LC50 (96h): 45 mg/l	Fish: fresh water
1-Methoxy-2-propanol	107-98-2	LC50 (96h): 4600-10000 mg/l	Leuciscus idus
1,2,4-Trimethylbenzene	95-63-6	LC50: 9.22 mg/l	Fish: Oncorhynchus mykiss
1,2,4-Trimethylbenzene	95-63-6	EC50 (48h): ca. 6.14 mg/l	Water flea: Daphnia magna

12.3 Persistence and Degradability:
- Limited biodegradable.

12.4 Bioaccumulative Potential:
- If forwarded properly to adapted. Biological sewage plant, there will be no disturbance in the decomposition activity of the activated sludge.

12.5 Mobility:
- Volatile liquid, rapidly evaporate in air.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal Method in Singapore:
- Dispose off in accordance to the Environmental Public Health Regulations under the Environmental Protection and Management Act (EPMA).

13.2 Disposal Method Overseas:
- Dispose off in accordance with all applicable local or national regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 Land (ADR):
- UN Number: 1993
- Class: 3
- Subsidiary Risk: None
- Packing Group: III
- Proper Shipping Name: FLAMMABLE LIQUID, N.O.S

14.2 Sea (IMDG):
- UN Number: 1993

- Class: 3
- Subsidiary Risk: None
- Packing Group: III
- Proper Shipping Name: FLAMMABLE LIQUID, N.O.S
- Marine Pollutant (Yes/No): No
- Packing Instructions: P001 / LP01
- Limited Quantity: 5L
- Further Information: None

14.3 Sea (Annex II of MARPOL 73/78 and the IBC Code):

- Pollution Category: Not applicable
- Ship Type: Not applicable.
- Product Name: Not applicable.

14.4 Air (IATA):

- UN Number: 1993
- Class: 3
- Subsidiary Risk: None
- Packing Group: III
- Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.
- Further Information: None

14.5 Special Precautions:

- None.

SECTION 15: REGULATORY INFORMATION

15.1 Applicable Singapore Regulations:

- Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations:
  This product is subject to the SDS, labelling, PEL and other requirements in the act/regulation.

- Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations:
  This product is subject to the requirements in the act/regulation.

- Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations:
  This product is subject to the requirements in this regulation.

- Fire Safety Act and Fire Safety (Petroleum and Flammable Materials) Regulations:
  This product is subject to the requirements in the act/regulation.

SECTION 16: OTHER INFORMATION

16.1 Issued By:

- FUJIFILM Asia Pacific Pte. Ltd.
- This SDS is prepared in accordance with Singapore Standard SS 586 : Part 3 : 2008.

16.2 Warranty:

- The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.