SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier
Product Name **FILMH**

1.2 Relevant identified uses of the substance or mixture and use advised against
Application of the supplier of the substance or mixture: Printing material

1.3 Details of the Supplier of the Safety Data Sheet
M&R Printing Equipment, Inc.
440 Medinah Road
Roselle, IL 60172-2329
(800) 736-6431
info@mrprint.com

1.4 Emergency Telephone Number
Chemtrec: within USA and Canada: (800) 424-9300
Outside USA and Canada: +1 (703) 527-3887

2. HAZARDS IDENTIFICATION

2.1 GHS Classification: Not classified as hazardous.
2.2 Hazard Pictograms: None
2.3 Signal Word: None
2.4 Hazard Statements: None
2.5 Invasion route: Skin touch, Inhalation, Ingestion
2.6 Health Hazards: No known significant health effects under normal conditions.
2.7 Environmental Hazards: Not classified as hazardous to the environment.
2.8 Fire Hazard: Combustible. May burn under open flame or high temperature.

3. COMPONENTS/INFORMATION ON INGREDIENTS

3.1 Mixtures
Description:
Mixture of the substance listed below with nonhazardous additions.
For the wording of listed hazard statements refer to section 16.

Base substances of preparation:

Number	Composition	Content (%)	CAS No.
1	Polyethylene terephthalate	95.1%	25038-59-9
2	Polyurethane resin	1.8%	51852-81-4
3	SiO2	0.4%	7631-86-9
4	Polyvinyl alcohol	1.8%	9002-89-5
5	Resin	0.9%	Confidential

4. FIRST AID MEASURES

4.1 First aid methods for different ways of exposure:
Inhalation: If accidentally inhaling product volatiles, please move to fresh air.
Skin Contact: Wash skin with soap and water.
Eye Contact: Eye contact is unlikely; if contact occurs, rinse with plenty of water and seek medical attention if irritation develops.

Ingestion:	Get immediate medical advice/attention. Do not induce vomiting without medical advice.
4.2 Most important symptoms and harmful effects:	None under normal use conditions.
4.3 Protection for emergency personnel:	None under normal use conditions.
4.4 Tips for the doctor:	Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Dangerous characteristic:	No corrosive. No special burning explosion properties.
5.2 Hazardous combustion products:	No information available.
5.3 Fire extinguishing methods:	Fog water and carbon dioxide fire extinguisher, dry powder, sand.

6. ACCIDENTAL RELEASE TREATMENT

6.1 Personal precautions should be taken for:	No information available.
6.2 Environmental considerations:	No information available.
6.3 Cleaning method:	Burning or buried, it's persistence and degradability.

7. HANDING AND STORAGE

7.1 Operation note:	
Environmental considerations:	Keep at temperatures between 50 and 95 °F / 10 and 35 °C, humidity less than 50%.
7.2 Storage precautions:	store in a cool, ventilated warehouse, away from fire and heat source. Should be separated from other goods stored. Storage area should be equipped with the right material for leakage.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Engineering control:	closed production system, production environment to strengthen ventilated.
8.2 Respiratory protection:	dust concentration in air exceeds bid, must wear self-priming filter type dust mask. Emergency rescue or evacuation, air breathing apparatus should be worn.
8.3 Eye protection:	wear chemical safety goggles.
8.4 Body protection:	wear overalls.
8.5 Hand protection:	wear safely gloves.
8.6 Other protection:	change and wash clothes in time. To maintain good health habits.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical State:	PET film
9.2 Color:	Half transparent white
9.3 Odor:	Characteristic
9.4 PH:	No data available
9.5 Viscosity:	No data available
9.6 Vapor Pressure:	No data available
9.7 Boiling Point:	No data available
9.8 Freezing/Melting Point:	No data available
9.9 Autoignition Temperature:	>350°C
9.10 Flash Point:	No data available
9.11 Explosion Limits, lower:	No data available
9.12 Decomposition Temperature:	No data available
9.13 Solubility in water:	No data available
9.14 Specific Gravity/Density:	No data available
9.15 Molecular Formula:	No data available
9.16 Molecular Weight:	No data available

10. STABILITY AND REACTIVITY

10.1 Stability:	Stable
Harmful reaction:	no harmful reaction was observed.
Polymerization of polymerization:	product will not occur polymerization reactive.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: inhalation:	None
Skin corrosion/irritation:	None
Serious eye damage/eye irritations:	None
Local effect:	None
Sensitivity:	None
Slow toxicity or long-term toxicity:	None
Special effects:	None

12. ECOLOGICAL INFORMATION

12.1 Energy consumption:

The production of PET film requires a lot of energy, which may lead to greenhouse gas emissions and thus affect climate change.
Chemical use: Various chemicals may be used in the production process. If these chemicals are not handled properly, they may cause pollution to water bodies and soil.
Environmental impact during use.

12.2 Physical pollution:

During use, PET film may enter the natural environment due to damage, abandonment and other reasons, becoming part of microplastic pollution and having a negative impact on the ecosystem.
Chemical stability: Although PET film has good chemical stability and is not easily biodegradable, it also means that it is difficult to decompose in the environment, and long-term existence may cause continuous pressure on the ecosystem.

13.3 Hydrolysis reaction:

Under certain conditions, PET film may undergo hydrolysis reaction to generate small molecules, which may have toxic effects on aquatic organisms.
Thermal degradation reaction: Under high temperature conditions, PET film will decompose to produce acetaldehyde, carbon dioxide and other substances. Although these substances themselves are less toxic, they may still have a certain impact on the environment if they are not handled properly.
In summary, PET film may have different degrees of impact on the ecological environment during production, use and disposal. To mitigate these impacts, the recycling of PET film should be strengthened the recycling rate should be increased, the use of energy and chemicals should be minimized during the production process, and the management and treatment of waste should be strengthened.

13. DISPOSAL CONSIDERATIONS

13.1 Recycling:

PET film is a recyclable material. If it can be effectively recycled, it can reduce the impact on the environment. However, in actual operation, the recycling rate is often not high, resulting in a large amount of PET film being landfilled or incinerated.

13.2 Landfill:

Landfilling PET film will occupy a large amount of land resources, and because it is difficult to degrade, it may exist in the soil for a long time, affecting the health of the soil.

13.3 Incineration:

Although PET film will decompose at high temperatures, harmful gases such as carbon dioxide and carbon monoxide may be produced during the incineration process, causing pollution to the atmospheric environment.

14. TRANSPORT INFORMATION

14.1 Packaging categories:	general packaging
14.2 Packing method:	1 roll or 2 rolls in a carton
14.3 Shipping notice:	packing should be full of actual loading should be stable. Transportation process to ensure that the container does not leak, collapse, fall, and not damaged. It is strictly prohibited during mixed with food chemicals in transportation. Transit should prevent insolation, drench. Banning the use of easy to produce the spark of loading and unloading machinery and tools.
14.4 Transport rules:	Not restricted in IATA DGR.

15. REGULATORY INFORMATION

Regulatory Information:	applicable laws: not the dangerous chemicals, confirm to the environment protection.

16. OTHER INFORMATION

The safety specifications provide information only as a safe operation, use, processing, storage, transportation, and disposal of guidance, and cannot be considered a guarantee or quality indicators, this information applies only to the specified product, for this product with other material mixing and combination is not applicable to any process, unless specified indicate.