

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



Supplier
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Product Name : HT Series
Trade Name : METALLIZED TREATED POLYESTER FILM POWDER
Material Name : POLYETHYLENE TEREPHTHALATE ALUMINUM FILM
Chemical Formula : $\text{HO}(\text{CH}_2)_2\text{O} \{ \text{OC} - \langle \text{O} \rangle - \text{COO}(\text{CH}_2)_2 \}_n \text{OH} + \text{ALUMINUM} + \text{MELAMINE} + \text{DYE}$
Chemical Family : METALLIZED TREATED POLYESTER FILM POWDER
Use : DECORATION, GLITTER POWDER

2. COMPOSITION/INFORMATION ON INGREDIENTS

	Component	Amount	CAS No.
Main ingredients :	Polyester	93~94%	25038-59-9
Coated resin :	Melamine	4~5%	108-78-1
Metal :	Aluminum	< 0.02%	07429-90-5
Colorant :	Dye	< 1%	5601-29-6, 509-34-2

3. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Film
Color	: Colored
Odor	: Odorless
Solubility in water)	: Insoluble
Boiling	: Not applicable
Melting Point (°C)	: 255~260°C
Vapor Pressure (mm of Hg at 25°C) applicable	: Not
Percentage Volatiles	: Not applicable
Evaporation Rate	: Not applicable
Vapor Density	: Not applicable
Specific Gravity	: 1.401~1.430
Flash point (°C)	: None
Auto ignition temperature	: None
Flammable limit (%) and other properties if applicable	: Not applicable

4. HAZARDS IDENTIFICATION

Health hazard	
Inhalation	: Combustion products may be irritant.
Skin contact	: No evidence of irritant effects from normal handling and use. Sharp edges may cause cuts.
Eye Contact	: Sharp off-cuts may cause eye damage.
Ingestion	: Not applicable
Long Term Exposure	: This material has been in use for many years with no evidence of adverse Effects.

5. FIRST AID MEASURES

Ingestion	: Unlikely to be required but, if necessary, treat symptomatically.
Eye contact	: Irrigate with eyewash solution or clean water, holding the eyelids apart.
	: If symptoms develop, obtain medical attention.
Skin contact	: Remove patient from exposure
Inhalation	: Only normally needed for thermal burns and following inhalation of smoke
Notes to physician	from burning material. Treat in the same way as other thermal burns and wood smoke inhalation.

5. FIRE FIGHTING MEASURES

Extinguishing media : Normal extinguishing media

Fire fighting instruction : Combustible but not readily ignited. Thin films(<23micron) will shrink away from a heat

source or flame. Persistent application of a flame will ignite the material. Burning is accompanied by melting and dripping which may cause the fire to spread. Combustion will evolve irritant vapors.

Special Hazards : At complete combustion, the major products formed are carbon dioxide water and aluminum

oxides. Some of the products of decomposition will also be present but at a concentration considerably less than carbon dioxide water and aluminum oxides. During incomplete combustion a range of products will be formed but mainly carbon dioxide, water, carbon monoxide and aluminum oxides.

(Eg. Explosion properties and explosion hazards in the presence of various chemicals.)

7. ACCIDENTAL RELEASE MEASURES

Scrap film generated through processing, eg, slitting/shredding, should be swept up and disposed of in drums or plastic bags.

8. HANDLING AND STORAGE

HANDLING

Thick gauges of film have very sharp edges which can easily cause cuts.

Process Hazards :

Static

In most processes in which there is movement of film (of any kind) over metal or other rollers, surface electrical charges develop on the film. Static charges should be eliminated or reduced as much as possible, since they provide

a source of ignition for flammable vapors and gases or may give electrical shock to operators. Use either passive or active static eliminators to reduce the charges

Reeling

Machine design and work practices should be organized to remove the danger of trapping parts of the body, or clothing, in reeled materials and between the film and machinery parts.

Dusts

Operations which produce dusts (eg, stamping, tape slitting, cutting and grinding) should be controlled so that the appropriate standard for dusts is not exceeded.

Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

Heating during processing

Extra care should be taken to prevent burns from contact with material.

All polymers degrade to some extent at their processing temperature, an effect which increases with increasing temperature. Metallized polyester film has a relatively high melting point. If in more high temperature, film shrinkage will occur-the degree of shrinkage being time/temperature and grade related.

The exact quantity and nature of the degradation products varies with temperature, oxygen supply and process conditions. It is therefore impossible to be precise about which substances may be evolved. However, it is only the minor components which vary substantially. The major components are given in section 10. Appropriate control measures, such as ventilation, should be applied.

Storage:

Keep away from heat and sources of ignition.

Storage temperature : Ambient.

Exposure to extremes of heat and cold should be avoided. Avoid extremes of humidity.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Unlikely to cause harmful effects under normal conditions of handling and use.

The following values apply to nuisance dust which may be formed during cold processing (eg, cutting, grinding, stamping) .

Personal protection : Wear suitable gloves to avoid cuts from the sharp edges of films > 125 micron thickness. Wear suitable eye protection when using the material in cold processes (eg, cutting, stamping , grinding) .

10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions
Incompatibility (Materials to avoid)	: Strong oxidizing agent
Combustion products	: Carbon dioxide, Carbon monoxide, Aluminum oxides
Thermal decomposition	: Acetaldehyde, Ethylene
Hazardous polymerization	: Will not occur

11. TOXICOLOGICAL INFORMATION

Toxicity Data	: None
Carcinogenicity Reproductive Effect	: None
Effects of overexposure	: None
Chronic effects	: None
Target organs	: None
Medical Conditions Generally Aggravated by exposure	: None

12. ECOLOGICAL INFORMATION

Mobility &	: Will slowly degrade with exposure to UV light.
Bioaccumulation	: No data available
Biodegradability	: No data available
Aquatic toxicity	: No data available

13. DISPOSAL INFORMATION**WASTE DISPOSAL :**

Waste material should be burned in a smokeless incinerator of high temperatures and long residence times, to enable complete combustion. To achieve this, the incinerator must have an afterburner which maintains the gases at a suitable temperature for 3 or 4 seconds.

14. TRANSPORTATION INFORMATION

Any international and national regulatory requirements	: None
Packaging on	: Using the cartons, pallet and paper core.
Any other special requirements	: None
Transportation	: By land transport and sea transport.

15. REGULATORY INFORMATION

USER : Not classified as hazardous to users
TRANSPORT : Not classified as hazardous for transport

16. OTHER INFORMATION

For other technical information contact the address in Section 1.
Workers using METALLIZED POLYESTER FILM POWDER should read and understand this MSDS and be trained in the proper use of this material