



SAFETY DATA SHEET

Revision Date: 3/13/2025

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY /UNDERTAKING

1.1 Product Identifier

Product Name : Metalized Textile Foil – TSX Series

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified uses: Heat Transfer Film

Uses advised against: Not for food packaging

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer's Name : K Laser Technology (USA), Co., Ltd.

Address: 3123 W. MacArthur Blvd, Santa Ana, CA 92704

SECTION 2 : HAZARD IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification: Not classified as hazardous or flammable

2.2 Label Elements

GHS Label elements: This material does not pose any inhalation, ingestion, or chemical hazards on its own.

Inhalation: Combustion products may be irritating.

Skin contact: There is no evidence of irritation from normal handling and use. However, sharp edges may cause cuts, so seek medical attention immediately.

Eye contact: Sharp off cuts may cause eye injury.

Ingestion: Not applicable, this is a solid material which is not edible.

Long term exposure: This material has been in use for many years with no evidence of adverse effects.

2.3 Other Hazards:

No classified hazards



SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Main Ingredients : Polyethylene Terephthalate

Chemical Substance:

Substance:	Ratio (%)	CAS NO.
Polyethylene Terephthalate Film	80%	2308-59-9
Release	2.5%	Mixture
Lacquer	7.5%	Mixture
Metallizing (Vacuum Metalizing)	2.5%	7429-90-5
Adhesive Coating	7.5%	Mixture

3.2 Mixtures

No components need to be disclosed according to the applicable regulations

SECTION 4 : FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation: If irritation continues or difficulty breathing occurs, remove the person from Exposure. Move them to fresh air and seek medical attention if symptoms persist.

Skin contact: If symptoms develop, wash the skin with soap or mild detergent and consult a physician if irritation continues.

Eye contact: Rinse with eyewash solution or clean water, seek immediate medical attention.

Ingestion: While unlikely to be necessary, if the product or dust is swallowed, seek immediate medical attention or advice.

Notes to physician: This is only necessary for thermal burns and following inhalation of smoke from burning material. Treat in the same way as other thermal burns and wood smoke inhalation.

4.2 Most important symptoms and effects, both acute and delayed.

Seek medical attention.

4.3 Indication of any immediate medical attention and special treatment

No data available



SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: Use dry chemical, foam, or carbon dioxide.

Unsuitable extinguishing media: Paper

5.2 Special Hazards Arising from the Substance or Mixture

It is flammable but does not ignite easily. Thin films may shrink away from a heat source or flame. Continuous flame applications can ignite the material. In addition to burning, melting, and dripping, which may cause the fire to spread, combustion releases irritating vapors.

5.3 Advice for Firefighters

Wear protective equipment. Use self-contained breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Use personal protective equipment.

6.2 Environmental Precautions

Scrap film generated during processing, such as from slitting or shredding, should be swept up and disposed of in drums or plastic bags.

6.3 Methods and Material for Containment and Cleaning Up

Sweep up and place in appropriate containers for disposal.

6.4 Reference to other sections:

See section 13 for waste disposal



SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Thick gauges of film have very sharp edges that can easily cause cuts. Do not attempt to ingest or inhale. Do not allow the product to come into contact with food or drink.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in a cool, dry place away from incompatible materials.

Keep away from heat, open flames and sources of ignition.

Storage temperature : Exposure to extreme heat and cold should be avoided.

Avoid extremes of humidity.

Incompatible chemicals and products: Strong chemical oxidizing and reducing agents, strong alkalis, and acids.

7.3 Specific end use(s)

No additional information

SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Control Parameters

Exposure limits are unlikely to cause harmful effects under normal conditions of handling and use. The following values apply to nuisance dust that may be formed during cold processing, such as cutting, grinding, and punching.

8.2 Exposure Controls

Appropriate engineering controls: Ensure adequate ventilation.

Personal protective equipment: Wear suitable gloves to avoid cuts from the sharp edges of films greater than 125 microns in thickness. Wear suitable eye protection or safety goggles when airbrush spraying is involved during the material transfer process.



SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State: Solid; Various Form

Appearance : Film, solid, sheet shaped, color may vary,

Odor : Odorless

Odor Threshold: No data available

Solubility (in water): Insoluble

Boiling Point: Not applicable

Melting Point (°C): 496 – 500°F (255~260°C)

Solubility (H₂O): Insoluble in water

Density: No applicable

Octanol/ (H₂O) Coefficient: Not applicable

Vapor Pressure (mm of Hg at 25°C): Not applicable

Percentage Volatiles: Not applicable

Evaporation Rate: Not volatile

Vapor Density: Not applicable

Specific Gravity: 1.40~1.43g/ cm³ 68°F (20°C)

Flash point: None

Autoignition Temperature: None

Lower Flammable Limit (%) and other properties if applicable: Not applicable

Upper Flammable Limit (%) and other properties if applicable: Not applicable

Flammability Class: Flammable if contacted with fire

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions

10.2 Chemical Stability

Stable under instructed storage conditions and recommended use.

10.3 Possibility of Hazardous Reactions

No hazardous reactions under normal conditions

10.4 Conditions to avoid,

Keep away from flames, humidity and water.

10.5 Incompatibility (Materials to avoid)

Strong oxidizing agent.

10.6 Hazardous polymerization

Carbon dioxide, Carbon monoxide, Aluminum oxides.

Thermal decomposition: Acetaldehyde, Ethylene.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) 1272/2008

No significant adverse health effects expected.

- (a) Acute Toxicity: No data available
- (b) Skin corrosion/irritation: No data available
- (c) Carcinogenicity: No data available
- (d) Reproductive effect: No data available
- (e) Effect of overexposure: No data available
- (f) Chronic effects: No data available
- (g) Target organs: No data available
- (h) Medical conditions generally aggravated by exposure: No data available
- (i) Aspiration hazard: Not applicable

11.2 Information on other hazards

Endocrine Disrupting Properties: Assess the potential for endocrine disruption in human health. This product does not contain any known or suspected endocrine disruptors.



SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

No toxicity to humans under recommended use.

12.2 Persistence/Degradability: No data available.

12.3 Bioaccumulate Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Aquatic toxicity: No data available.

12.6 Ecotoxicity: Not biodegradable. This product is not expected to present an environmental hazard under careful handling.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste material should be burned in a smokeless incinerator with high temperatures and long residence times to ensure complete combustion. The incinerator must be equipped with an afterburner that maintains the gases at a suitable temperature for 3 to 4 seconds.



SECTION 14 : TRANSPORT INFORMATION

14.1 UN Number

Not regulated for transport

14.2 UN proper shipping name

Not regulated

14.3 Transport hazard class(es)

Transport labels

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazards

Environmentally hazardous substance/Marine Pollutant

No hazards identified

14.6 Special precautions for user

No special precautions required

14.7 Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods.

The product is not covered by international regulations on the transport of dangerous goods.

SECTION 15 : REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

SECTION 16 : OTHER INFORMATION

Abbreviations and Acronyms

CAS – Chemical Abstracts Service

IMO- International Maritime Organization