

SAFETY DATA SHEET (SDS)

SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product form Film sheets or bags
Product Identifier Metallized Polyethylene film

1.2 Recommended use and restriction on use

Material Use: Plastics bags, liners, agricultural and general flexible packaging.

1.3 Manufacturer/Importer/Supplier information

Plastilite Corporation
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SECTION 2 – HAZARDS IDENTIFICATION

2.1 Hazard Classification (GHS-US)

Not classified

2.2 Hazard not otherwise classified

No additional information available

2.3 Unknown acute toxicity (GHS-US)

Not applicable

2.4 Additional information

Decomposition products caused by overheating of polyethylene may cause skin, eye or respiratory irritation. Molten or heated material can cause thermal burn to exposed skin.
Spilled film may create a dangerous slipping hazard.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Item	Component	CAS #	Wt %
1.	Polyethylene (Ethene Homopolymer)	9002-88-4	0 – 99 *
2.	Ethylene/Butene Copolymer	25087-34-7	0 – 99 *
3.	Ethylene/Hexene Copolymer	25213-02-9	0 – 99 *
4.	Ethylene/Octene Copolymer	26221-73-8	0 – 99 *
5.	Ethylene/Vinyl Acetate Copolymer (EVA)	24937-78-8	0 – 99 *
6.	Aluminum	7429-90-5	0.1 – 0.35
7.	General Additives	Not Available	0 – 1.0**
8.	Color Additives	Not Available	0 – 5.0***

* The combination of poly (items 1-5) always account for 99% by weight or better.

** Additives may include antiblock, process aid, and ultra-violet inhibitors, all usually accounting for less than 1.0 % by weight of final product.

*** Color Additives include mono color film or dual color coex film, with actual color concentrates up to 5% in very rare cases (1.0 – 3.0% is typical for non-White colors; 4.0% is typical for White).

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Ingestion:

Ingestion is not expected during normal use of the product. If ingested, do not induce vomiting. Seek medical attention.

Inhalation:

No need anticipated, as polyethylene or polypropylene film is not likely to be hazardous by inhalation. However, if exposed to fumes from overheating or combustion, remove victim to fresh air. If the victim has stopped breathing, give artificial respiration and get medical attention immediately.

Skin:

This product is not likely to be hazardous to exposed skin, but cleaning the skin after use is a good health practice. If molten polymer gets in contact with skin, flush area with cold water and seek medical treatment for thermal burn.

Eyes:

No need anticipated.

4.2 Most important symptoms / effects, acute and delayed

No additional information available

4.3 Indication of any immediate medical attention and special treatment needed.

No additional information available

SECTION 5 - FIRE FIGHTING MEASURES

5.1 General fire hazards

Product is not considered flammable. Film does not easily ignite, but will burn at high temperatures. Under fire conditions, product will burn with irritating smoke.

5.2 Suitable extinguishing media

Use dry chemical, water spray, foam, or carbon dioxide to extinguish flame.

5.3 Specific hazard arising from the chemical

Hazardous decomposition products in case of fire:

Carbon oxides (CO, CO₂). Aldehydes. Ketones. Hydrocarbons. Fire will produce dense black smoke. Soot.

5.4 Advice for fire fighters

Protective equipment:

Firefighters should wear full protective gear with self contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Unwound or loose film may create a slipping hazard. Isolate area and keep unnecessary personnel away.

6.2 Methods and material for containment and cleaning up.

Clean or pick up loose film with appropriate equipment. Recycle or dispose according to the applicable regulations.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation of the work station. Wear personal protective equipment. Do not overheat the product. Avoid contact with heated product to prevent burns

Ground all material handling equipment to prevent build-up of static charge. To prevent static-discharge induced fire, film rolls with plastic overwrap should be unwrapped only in non-process areas where ignition sources such as solvents are not present.

Avoid skin contact with sharp film edges. Rolls of film may telescope. Be cautious when handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Store at room temperature. Protect from heat and direct sunlight. Store in dry, cool, well-ventilated area.

Incompatible materials:

Strong oxidizing agents

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTIONS

8.1 Occupational Exposure Limits

No information available

8.2 Appropriate Engineering Controls

Good general ventilation should be sufficient for most operations. Where overheating occurs during processing, remove fumes released by decomposition with local exhaust.

Movement of film in the web during processing will produce surface static charge on the film. It is advisable to invest in process designs and procedures that minimize or dissipate static charge; this reduces the possibility of unwanted electrical discharge to people and damaging discharge to equipments and materials.

8.3 Personal Protective Equipments

Eye/Face Protection: Use safety glasses with side shields. Use goggles if contact with molten materials is likely.

Skin/Hands/Feet: Special protective clothing is not needed for normal use. Safety footwear with traction and gloves are recommended as good industrial practice. Where potential for exposure to hot/molten material exists, wear heat resistant impervious clothing, footwear and thermal insulating gloves.

Respiratory Protection: Respirators are not required for normal use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Solid
Appearance	:	Film.
Color	:	Colored
Odor	:	Odorless to mild.
Odor threshold	:	No data available
pH	:	Not applicable
Melting point	:	100 - 136 °C
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Auto-ignition temperature	:	No data available

Decomposition temperature	:	Varies; >300 °C (>572 °F)
Flammability (solid, gas)	:	No data available
Vapor pressure	:	Not applicable
Vapor Density	:	Not applicable
Relative density	:	0.91 – 1.05
Solubility in water	:	Insoluble
Viscosity	:	Not applicable

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

Product has negligible reactivity under normal use.

10.2 Chemical Stability

This product is stable at normal temperatures and storage conditions

10.4 Conditions to avoid

Avoid strong oxidizing agents. Do not process material above 300 °C (>572 °F)

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur under normal conditions of storage and use.

10.5 Incompatibility with other materials

Reactive or incompatible with strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products depend on temperature, quality of air supply, and the presence of other materials. Decomposition products may include but not limited to oligomers, waxes, carbon monoxide, carbon dioxide, aldehydes and organic acids. Inhalation of these decomposition products may be hazardous

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 oral rat : > 8000 mg/Kg based on polyethylene homopolymer

Carcinogenicity

Not listed by ACGIH, IARC, OSHA and NTP

Inhalation	unlikely during normal usage and handling
Ingestion	unlikely during normal usage and handling
Eyes	molten material will produce thermal burn
Skin	molten material will produce thermal burn

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No information available. Ecotoxicity is expected to be minimal since polyethylene film is essentially an inert solid with low water solubility. Film is not biodegradable.

12.2 Persistence and Degradability

Photodegradation occurs with exposure to sunlight, leading to embrittlement, but film will not fully break down. No appreciable biodegradation is expected from exposure to microbial activities.

12.3 Bioaccumulation Potential

Polyethylene film is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil

Film is expected to have low mobility in soil.

12.5 Other adverse effects

No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 General Information and waste treatment methods

This product is not considered to be hazardous waste according to Canadian regulations and US RCRA. Any converting operation such printing and lamination that introduces another material will alter the product, and may alter the waste classification. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Treatment, storage, transportation, and disposal must be done in accordance to relevant federal, provincial/state, and local regulations to ensure compliance with all criteria for disposal of hazardous waste.

13.2 Waste disposal recommendations

Recycle the material as far as possible

13.3 Additional information

May be used as fuel in suitably designed installations.

SECTION 14 – TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Not regulated as a hazardous material when shipped domestically by land (bulk shipping)

International Maritime Dangerous Goods (IMDG) Code

Not regulated as a hazardous material for shipping

International Air Transportation Association (IATA) Regulations

Not regulated as a hazardous material for shipping

Canadian – Transportation of Dangerous Goods (TDG)

Not regulated as a hazardous material when shipped domestically by land

SECTION 15 – REGULATORY INFORMATION

15.1 U.S. Federal Regulations

SARA Title III

Section 313 (40 CFR 372.65): This product has no component subject to supplier notification requirements under this regulation.

Toxic Substances Control Act (TSCA)

All components of this product are listed on, or are exempt from TSCA chemical substance inventory.

Ozone Depletion Status

This product does not contain, and is not manufactured with any ozone depleting chemicals as defined by Title VI of the U.S. Clean Air Act.

This product is not subject to EPA labeling regulations on protection of stratospheric ozone (40 CFR Part 82)

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product is not a controlled product under WHMIS

Canadian Environmental Protection Act (CEPA)

All components of this product are listed on the Domestic Substances List (DSL), or are not required to be listed.

National Pollutant Release Inventory (NPRI)

This product has no NPRI reportable substances.

15.3 U.S. State Regulations

CONEG Status

Plastilite Thermalast films comply with CONEG regulations: the sum of the concentrations of cadmium, chromium, lead and mercury does not exceed 100 ppm. None of these substances (cadmium, chromium, lead and mercury) are used as an ingredient or process aid in the processing of Plastilite Thermalast films.

California Proposition 65 Status

This product does not contain any chemical on the current Proposition 65 list of "known carcinogens and reproductive toxicants."

SECTION 16 – OTHER INFORMATION

Key/Legend

ACGIH = American Conference of Government Industrial Hygienists; CAS = Chemical Abstracts Service; CPR = Controlled Products Regulations; DOT = Department of Transport; DSL = Domestic Substances List; EPA = Environment Protection Agency; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; RCRA = Resource Conservation and Recovery Act; TDP = Transportation of Dangerous Goods; TSCA = Toxic Substance Control Act; SARA = Superfund Amendments and Reauthorization Act.

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Date of issue: Nov 2, 2015

Disclaimer

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