

Section 1: Product and Company Identification

Company

Algix Inc.
5168 Water Tower Rd
Meridian, MS 39305

Product Information

Product Name: Solaplast 2110
Description: PBAT Masterbatch
for use in Sheet/Film Extrusion

Section 2: Hazards Identification

Emergency Overview: Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures.

Molten or heated material in skin contact can cause severe burns.

Potential Health Effects

Primary Routes of Entry: Nose, mouth, eyes, and skin via inhalation, ingestion, or contact.

Acute Health Effects: Product in pelletized form is not expected to cause adverse health effects. Heated polymer may cause severe burns upon contact. Excessive heating of polymer may generate vapors that can be irritating to eyes, respiratory system and skin. Prolonged or repeated exposure to vapors may cause: headache, nausea, drowsiness, weakness, or loss of consciousness (severity of systems varies dependent on length of exposure) Product is not intended to be ingested, and may present a choking hazard if ingested.

Chronic Health Effects: Solaplast 2110 is not considered a carcinogenic compound. No other long term effects of exposure are recognized. By-products formed in burning of resin may include carcinogenic compounds.

Section 3: Compositional Information

Substance Name	CAS No.	Wt %
Poly(Butylene Adipate -co-Terephthalate)	60961-73-1	~ 50
Algae Milled	N/A	~ 46
Odor Package	N/A	< 4

Section 4: First-Aid Measures

Inhalation: Remove to fresh air immediately. Call a physician immediately if symptoms develop.

Ingestion: Drink plenty of water and consult a physician DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately flush eyes with plenty of water. Consult a physician if irritation persists.

Skin Contact: Wash skin. If irritation occurs consult a physician. For molten plastic rapidly cool skin in cold water. Do not remove solidified plastic from skin. See a physician for severe burning.

Section 5: Fire-Fighting Measures

Auto-Ignition Temperature: 400°C(500°F)

Flash Points: 260°C(752°F)

Flammability Limits: Not Available

Products of Combustion: Oxides of Nitrogen and Carbon may be formed

Extinguishing Media: Dry chemical, water spray or fog

Protective Equipment: Wear NIOSH approved breathing apparatus and proper fire proof protective gear.

Section 6: Accidental Release Measures

In case of spill or leak: Loose pellets on floor can present a slipping hazard and can result in serious injury. Loose material should be swept or vacuumed up and placed in a closed container for disposal in accordance with local, state, and federal laws. For large spills a shovel is suitable for removal.

Section 7: Handling & Storage

Handling: Avoid temperatures above 260°C(500°F)

Avoid inhalation of dust or vapors produced when processing.

Handle in accordance with good industrial hygiene and safety practices. Wear proper protective equipment at all times including safety glasses and gloves when working with hot material.

Keep the product dry and free of moisture.

Storage: Store in a cool dry place in packaging impermeable to water vapor.

Keep in a well ventilated space with container tightly closed.

Section 8: Exposure Controls and Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels of dust and fumes at safe levels.

Personal Protective Equipment:

Respiratory: In well ventilated area no equipment required. If ventilation is poor a respirator is recommended.

Body: Wear pants and long sleeved shirts at all times to protect from accidental contact with molten material.

Eyes: Wear safety glasses with side protection.

Hands: Wear insulated gloves when handling hot material.

Feet: Wear fully enclosed shoes that will protect against burns from hot material.

Section 9: Physical and Chemical Properties

Appearance: Solid, Pellets

Color: Green

Odor: Sweet

Specific Gravity: 1.41

Decomposition Point: above 260°C(500°F)

Solubility in Water: Not Soluble

Section 10: Stability and Reactivity

Stability: Product is stable under normal handling and storage conditions.

Hazardous Reactions: Avoid temperatures above 260°C(500°F) as they may generate hazardous compounds. See Hazardous decomposition products.

Conditions/Hazards to avoid: This material should not be stored with water, strong oxidizers, or in the presence of extreme heat or flame.

Hazardous Decomposition products: Upon decomposition this material may generate oxides of Nitrogen and carbon. It may also produce toxic and flammable organic volatiles or vapors. Avoid temperatures above 260°C(500°F) to prevent decomposition.

Section 11: Toxicological Information

Acute Toxicity: Virtually nontoxic after a single ingestion.

Chronic Effects: Not considered to be carcinogenic.

Section 12: Ecological Information

Ecotoxicity: Avoid release to the environment. This product is not expected to bio-accumulate in the environment.

Biodegradability: This product is considered compostable and will degrade in composting conditions in accordance with ASTM D6400.

Section 13: Disposal Consideration

Waste Disposal: Dispose of in an approved disposal area in accordance with local, state and federal laws.

Section 14: Transport Information

US Department of Transportation (DOT): Not on the controlled substances list.

Section 15: Regulatory Information

HCS Classification: This Product is not a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Chemical Inventory Statuses:

U.S. Toxic Substances Control Act	TSCA	Some components of this product do not conform to this inventory
EU. European Inventory of Existing Commercial Chemical Substances	EINECS	Some components of this product do not conform to this inventory
Canadian Environmental Protection Act and Domestic Substances List	DSL	Some components of this product do not conform to this inventory

<i>Australian Inventory of Chemical Substances</i>	<i>AICS</i>	Some components of this product do not conform to this inventory
<i>Japanese Existing and New Chemical Substances</i>	<i>ENCS</i>	Some components of this product do not conform to this inventory
<i>Korean Existing Chemicals Inventory</i>	<i>KECI</i>	Some components of this product do not conform to this inventory
<i>Phillipine Inventory of Chemicals and Chemical Substances</i>	<i>PICCS</i>	Some components of this product do not conform to this inventory
<i>Inventory of Existing Chemical Substances in China</i>	<i>IECSC</i>	Some components of this product do not conform to this inventory
<i>New Zealand Inventory of Chemical Substances</i>	<i>NZIoC</i>	Some components of this product do not conform to this inventory

Note: Algae included in resin mixture is considered a naturally occurring substance according to the EPA's Title 40 CFR 710.4 and as such is excluded from inventory consideration.

Section 16: Other Information

This SDS sheet was published by Algix's Department of Research and Development on August 23, 2014. For questions or concerns contact the R&D department at (877)972-5449.