SAFETY DATA SHEET

Insight™ LAA112-Low Gloss PLA Masterbatch

Issue Date: 11/10/2023
Revision Date: 11/10/2023 v1

1. IDENTIFICATION

Product identifier used on label

Insight™ LAA112-Low Gloss PLA Masterbatch
Insight™ LAA112-LG

Recommended use of the chemical and restrictions on use

Polymer for industrial processing

Details of the supplier of the safety data sheet

Insight Polymers & Compounding LLC
1917 Brookside Ln
Kingsport, TN 37660

Telephone: +1 423 567-4727

2. HAZARD IDENTIFICATION

The product is not considered hazardous by 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200

Hazards not otherwise classified

No specific dangers known.

Other information

Under hot melt processing conditions wear personal protective equipment to prevent thermal burns.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight %	Proprietary
PLA	9051-89-2	30-95	
Additives		5-70	*

The product contains no substances which are considered to be hazardous to health.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation:

If difficulties occur after dust has been inhaled, remove to fresh air and consult a physician.

Eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact:

Wash skin with soap and water when in contact with molten residues. Burns caused by molten material require hospital treatment

Ingestion:

Drink plenty of water. Do not induce vomiting without medical advice. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat according to symptoms.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, foam, dry powder

Special hazards arising from the substance or mixture

Hazards during fire-fighting: No hazardous combustion products are known.

Fire-fighting procedures

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear suitable personal protective clothing and equipment. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions

Do not flush into surface water or sanitary sewer system. Keep out of waterways.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of dusts/mists/vapors

Protection against fire and explosion:

Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

The product in undamaged packing need not be stored separately.

Suitable materials for containers

Low density polyethylene (LDPE), High density polyethylene (HDPE), Aluminum, Carbon steel (Iron)

Further information on storage conditions

Keep container tightly closed and dry: store in a cool place. Avoid dust formation. Product dust can form an explosive mixture with air.

Storage stability

Protect against moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Appropriate engineering controls

Engineering controls: If dust is generated during further processing provide exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection: Goggles. Safety glasses with side-shields.

Skin and body protection: Impervious clothing.

Respiratory protection: Minimize dust generation and accumulation. Wear respiratory protection.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	pellets
Odor:	odorless
Odor threshold:	not applicable
Color:	white, opaque
pH value:	not applicable
Melting Temperature:	175 °C
Freezing point:	no data available.
Boiling point:	the substance / product decomposes therefore not determined.
Sublimation point:	no applicable information available.
Flash point:	not applicable
Flammability:	may form combustible dust concentrations in air during processing
Flammability of Aerosol Products:	not applicable, the product does not form flammable aerosols

10. STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

No hazardous reactions known.

Conditions to avoid

Temperature: > 230 degrees Celsius

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide, carbon dioxide
Thermal decomposition: > 230 °C

11. TOXILOGICAL INFORMATION

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

Oral

Practically nontoxic. The product has not been tested.

Inhalation

Not inhalable due to the properties of the product.

Dermal

Practically nontoxic. The product has not been tested.

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes. Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

Eye

May cause mechanical irritation.

Sensitization

Assessment of sensitization: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

General toxicity

Assessment of mutagenicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Carcinogenicity

Assessment of carcinogenicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Reproductive toxicity

Assessment of reproduction toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Other Information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity: The product has not been tested. There is a high probability that the product is not acutely harmful to aquatic organisms.

Persistence and degradability

Hydrolysis in hot water. The hydrolysis product is readily biologically degradable. Decomposes in contact with hot water. The hydrolysis product is S-lactic acid which is readily biodegradable.

Bioaccumulative potential

The product will not be readily bioavailable due to its consistency and insolubility in water.

13. DISPOSAL CONSIDERATIONS

This material as supplied is not a hazardous waste according to Federal regulations. Dispose in accordance with local and environmental regulations. Check for recycling options.

Containers must be completely emptied. Emptied containers can be recycled.

14. TRANSPORT INFORMATION

Land transport (USDOT)

Not classified as a dangerous good under transport regulations.

Sea transport (IMDG)

Not classified as a dangerous good under transport regulations.

Air transport (IATA/ICAO)

Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

U.S. Toxic Substances Control Act (TSCA):

Complies

SARA 313

This product does not contain any chemicals that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

16. OTHER INFORMATION

NFPA Hazard codes:
Health: 1 Flammability: 1 Reactivity: 0

HMIS III Rating
Health: 1 Flammability: 1 Physical hazard: 0

Revision #1
Revision Date: 11/10/2023

Disclaimer

The information contained herein are presented in good faith and believed to be accurate. It is provided for your guidance only. Because many factors may affect the processing or application use, we recommend that you make tests to determine suitability of a product prior to use. No warranties of any kind, either expressed or implied are made regarding products described.