



SAFETY DATA SHEET (SDS)

**Product : Bio-based Enviplast® WR Pellet
(Bio-based Composite)**

1. IDENTIFICATION

1.1. Identification of the Product

Product Name : Enviplast® WR Pellet
Composition / Chemical Formula : See description 1.2
Product Grade : Bio-based composite
Chemical Family : Bio-based composite made from starch, vegetable oil derivatives and biodegradable polyesters
Dangerous Components : None

1.2. Description

The original of the raw materials come from sustainable resources: starch from corn/cassava and plasticizer derivative from vegetable oil that will breakdown into carbon dioxide, water and biomass.

1.3. Company Identification

Company Name : PT. INTERA LESTARI POLIMER
Factory Address : Jl. Raya Serang KM 25.6 RT 010/ RW 004, Cisereh, Kec. Tigaraksa, Banten 15720
Telephone / Fax : +62-2159576888

2. HAZARDS IDENTIFICATION

2.1. Emergency Overview

A translucent or colored pellets not considered hazardous.

2.2. Warning

The pellets can create a suffocation hazard when placed over the nose and mouth. Keep this pellet away from babies and children.

2.3. Potential Health Hazards

Skin	: No adverse effects are expected
Eyes	: No adverse effects are expected
Inhalation	: Inhalation exposures are unlikely due to physical properties
Ingestion	: Not toxic, may act as an obstruction if swallowed

3. FIRST-AID MEASURES

Skin Contact	: No adverse effects anticipated
Eye Contact	: No adverse effects anticipated. Remove from contact, flush with clean water
Inhalation	: No adverse effects anticipated
Accidental Swallowing	: Vomit the contents

4. FIRE-FIGHTING MEASURES

Does not present specific fire hazard but will burn if ignited.

Flash Point	: Not applicable
Explosion Limits (Upper/Lower)	: Not applicable
Suitable Extinguisher Agents	: Use water fog, dry chemical or carbon dioxide, extinguishing powder or water spray. Larger fires can be fought with large water spray or alcohol resistant foam
Combustion Products	: In case of fire or combustion carbon monoxide, carbon dioxide may released
Protective Equipment	: Wear self-contained positive pressure breathing apparatus in any closed space

5. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up: shovel and sweep or use industrial vacuum cleaner as for pellets. Put into containers for reclaiming or disposal as permitted by applicable national, state and/or local regulations.

6. HANDLING AND STORAGE

1. The product should be stored in original packing under dry condition
2. Improper storage can initiate degradation that will affect the product's physical properties
3. Container boxes or sacks should be kept tightly closed when not in use
4. Precautions for storage place in natural ventilation
5. Avoid direct contact with water

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection	: Not required
Ventilation	: General ventilation should be adequate for normal use
Protection Gloves	: Not required
Eye Protection	: Not required
Other Protective Equipments	: Not required

8. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Creamish pellet
Stability	: Stable
Vapour Pressure	: Not applicable
Density (ASTM D792)	: 1.2 - 1.3 g/cm ³
Melt flow index (190 °C, 2.16 Kg)	: 5 - 9 g/10 min
Flammability	: Not flammable
Percent Volatile by Volume	: Nil
Auto-Ignition Temperature	: Not applicable

9. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use
Stability	: Stable when stored in original packing
Hazardous polymerization	: Will not occur
Material to Avoid	: Strong oxidizing agents, excessive heat or open flame
Conditions to Avoid	: Direct contact with water
Hazardous Decomposition Products	: Not applicable

10. TOXICOLOGICAL INFORMATION

Classified as non-toxic. Oral rat LD50 more than 5,000 mg/kg.

11. ECOLOGICAL INFORMATION

Environmental Toxicity : OECD Guidelines for the testing of Chemicals 202 (1984); EC50 (Median Effective Concentration) more Than 20%

Environmental Effects in Soil/Water : When this material products are release into soil, this material is expected to biodegrade by microorganism without any toxic residue

Environmental Effects in Air : Not applicable

12. DISPOSAL CONSIDERATION

This material will breakdown into carbon dioxide and water without any toxic residue. Whatever cannot be recycled like packaging, label, transport container can be disposed as per local regulations and good engineering practice.

13. TRANSPORTATION INFORMATION

This material is not hazardous to transport.

DOT Regulations : Not hazard class

Land Transport ADR/RID : None

Maritime Transport IMDG : None

Air Transport ICAO-TI/IATA-DGR : None

14. REGULATORY INFORMATION

There are no established exposure limits for the mixture, however, dust and fumes from processing should be ventilated adequately.

To The Best of Our Knowledge

None of the mixture components are on the health & safety reporting list

None of the mixture components in this product are under a Chemical Test Rule

None of the mixture components are listed under TSCA section 12b (export notification)

None of the mixture components in this material have an SNUR under TSCA

None of the mixture components in this material have an RQ under CERCLA

None of the mixture components in this material have a TPQ under SARA

None of the mixture components in this material is reported under section 313

Clean Air Act

This material does not contain any hazardous air pollutants

Clean Water Act

None of the chemicals in this product are listed as hazardous substances under the CWA

None of the chemicals in this product are listed as priority pollutants under CWA

None of the chemicals in this product are listed as toxic pollutants under CWA

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA

California Prop 65

California no significant risk level, none of the chemicals in this product are listed

European / International Regulations

European labeling in accordance with EU/EC Directives

Hazard Symbols : Not available

Risk Phrases : No information available

Safety Phrases : No information available

WGK : No information available

15. OTHER INFORMATION

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