

# MATERIAL SAFETY DATA SHEET



Oryzite

RYZ-100- RYZ-200  
RYZ-156- RYZ-256

## 1 Product and Supplier Identification

<b>Product name</b>	: Rice Husk
<b>Commercial Name</b>	
	: ORYZITE REF:RYZ-100 RYZ-200 (POWDER)
<b>Product Code</b>	: <b>RYZ 00/2012/01</b>
<b>Chemical Name</b>	: not applicable
<b>Use of the substance</b>	: filler ( to be mixed with different plastics)
<b>Supplier:</b>	: Algan Composites SL ESPAÑA <a href="mailto:ganduxe@oryzite.com">ganduxe@oryzite.com</a> <a href="http://www.oryzite.com">www.oryzite.com</a>

## 2. Composition / Information on Ingredients

<b>Kind of Substance</b>	: mixture
<b>Chemical Description</b>	: Rice husk 92% CAS-Nº: N/A Natural rice starch CAS-Nº: 9005-25-8 Inert additive CAS-Nº: N/A(inert fixative polymer derived from plant starches)

## 3. Hazards Identification

Rice husk is not classified as dangerous according to Directive 1999/45/EC and its amendments

## 4. First Aid Measures

<b>Inhalation</b>	: the patient to the fresh air. If there is difficulty in breathing, medical advice is required.
<b>Skin contact</b>	: Rinse thoroughly under running water.
<b>Eyes contact</b>	: Contamination of the eyes must be treated thorough irrigation with water, with the eyelids held open. Eventually a doctor (or eye specialist) should be consulted.
<b>Ingestion</b>	: Rinse mouth thoroughly under running water only if the person is conscious.

## 5. Fire-Fighting Measure

<b>Suitable extinguishing agents</b>	: Water spray, dry chemicals form or CO2.
<b>Extinguish media which shall not be used for safety reasons</b>	: None known.
<b>Special exposure hazards arising from the substance of preparation itself, combustion product, re-sulting gases</b>	: Carbon monoxide, carbon dioxide, heavy black smoke, water vapor and traces of volatile organic compound (VOC).
<b>Special protective equipment for Fire-fighters</b>	: Firemen have to wear self-contained breathing apparatus and appropriate protective equipments.

## 6. Accidental Release Measures

<b>Personal precautions</b>	: Provide adequate ventilation and put on appropriate personnel protective equipments.
<b>Environmental precautions</b>	: Product without danger to the environment (biodegradable).
<b>Measures for cleaning up</b>	: Take up mechanically; avoid dust formation.

## 7. Handling and Storage

- Handling** : No special measures required.
- Storage** : Keep container dry and tightly closed in a cool and well ventilated place.
- Further information** : Material can be stored at ambient temperature.

## 8. Exposure Controls/Personal Protection

- Exposure limit values** : Not available.
- Exposure control-Personal protective equipment:**
- Respiratory** : Dust-protection mask
- Hand** : Wear appropriate protective glove.
- Eye** : Safety glasses.
- Skin** : No special skin protection requirements during normal handling and use.
- Exposure control-environmental exposure controls** : Emission from ventilation or work process equipment should be checked to ensure they comply with the requirements or environmental protection legislation.



## 9. Physical and Chemical Properties

### Appearance:

- Oryzite RYZ-156/RYZ-256** : Solid granulate.
- Oryzite RYZ-100/RYZ-200** : Solid micronized.

- Colour** : Golden Brown.
- Odour** : Characteristic smell of straw.
- PH** : Neutral.
- Moisture** : less than 3,6%
- Melting point/range (°C)** : 117 to 124 °C
- Bulk density**
- Oryzite RYZ-156/RYZ-256** : 850 G/L
- Oryzite RYZ-100/RYZ-200** : 620 G/L
- Water solubility** : insoluble at 20 °C
- Decomposition temperature** : 220°C to 260°C

## 10. Stability and Reactivity

- Conditions to avoid** : Mixture air/powder (blast risk).
- Materials to avoid** : Strong oxidizers.
- Hazardous decomposition products** : Carbon monoxide, carbon dioxide, water and oxygen.

## 11. Toxicological information

- Toxicokinetics, metabolism and distribution** : N/A
- Acute toxicity** : N/A
- LD50 (oral, rat)** : N/A
- Irritant effects** : Can cause slight irritation.
- Corrosive effects** : Non-corrosive effects.
- Get in eyes** : may cause slight irritation.
- Inhalation** : They cause mild respiratory irritation and cough. Chronic exposures from inhaling high concentrations of dust without adequate respiratory protection. May cause increased mucus flow in the respiratory tract.
- Skin contact** : Slightly irritating by mechanical rubbing on the skin in sensitive people.
- Ingestion** : No known significant effects or critical hazards.

### Classification

Product name or ingredient	USA. Thresholds values OSHA (Occupational Safety and Health Administration)		
	Type	Limit value	Shape

Particulates Not classified otherwise, inhalable fraction	PEL	15 mg/m3	Total powder
	PEL	5 mg/m3	Respirable fraction (as a nuisance dust)
	SPEL		N/A

Product name or ingredient	USA. Thresholds values ACGIH (American Conference of Governmental Industrial Hygienists)		
	Type	Limit value	Shape
Particulates Not classified otherwise, inhalable fraction	TLV	15 mg/m3	Total powder
	TLV	5 mg/m3	Respirable fraction (as a nuisance dust)
	TLV STEL		N/A

- PEL (Permissible Exposure Limits)** = Permissible Exposure Limit. It is the maximum amount or concentration of a chemical to which a worker can be exposed according to OSHA standards.
- STEL (Short Term Exposure Level)** = It is the level of short-term exposure of a chemical to which workers can be continuously exposed for a short period of time without suffering from: Irritation, chronic or irreversible tissue damage or Narcosis, according to ACHIH standards.
- TLV (Threshold Limit Value)** = hreshold Limit Value. It refers to a weighted 15-minute exposure average that should not be exceeded at any time during a business day.
- OSHA** = Occupational Health and Hygiene Administration.
- ACGIH** = American Conference of Industrial Governmental Hygienists..

- Observations** :
- Biological Limit Values: According to the "National Regulations for the Control of Hazards at Work Substances" (NOHSC 1005: (1994). "The ingredients of this material do not have an assigned biological limit").

## 12. Ecological Information

- Toxicity** : This product is not by composition eco-toxic for the air, water or soil
- Persistence and degradability** : biodegradable product

- Observations** :
- The rice husk is organic material used in the production process of the Pellet or the micronized "Do not require Fumigation" or "Special Chemical Conservation Treatments" because the organic material is completely stabilized as a core in the polymer matrix of the product , starch derived inert polymer fixing agent.

## 13. Disposal Considerations

- Disposal methods of the substance/preparation** : Can be disposed with due care and attention.
- Disposal method of the contaminated Packaging** : The contaminated packaging should be packaged, sealed , labelled and disposed or recycled according to relevant national and local regulations.

LER Code: 15 01 01 (Paper and Cardboard Packaging).  
 LER Code: 15 01 02 (Plastic containers)  
 LER Code: 15 01 05 (Residues of Composite Packaging).  
 LER Code: 17 02 03 (Plastics).  
 ER = European Waste List.

## 14. Transport Information

	ADR/RID	ADN/ADNR	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN official transportation designation	-	-	-	-
Class (s) of Transport hazard	-	-	-	-
Packaging group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Special precautions for users	Not available.	Not available.	Not available.	Not available.
Additional Information	-	-	-	-

This material is not classified according to the recommendations of the UN (8. edition) on the transport of dangerous goods

## 15. Regulatory Information

Labelling according to EEC directive 88/379/EEC and subsequent amendments is not required. Additional

**EEC classification** : No dangerous preparation.

**R(isk) phrases:** : N.a

## 16. Other information

### Notice to Reader

Employers should use this information only as a supplement to the other informations gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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Please ensure that this information is passed to the professionals who are capable of acting on it.

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