

## Safety Data Sheet

### 1. Identification of the Substances/Preparation and of the Company/Undertaking

#### Product Details

**Trade Name:** EPDM RUBBER GRANULES

**Type:**KT01,KT02,KT02,KT04,KT05,KT06,KT07,KT08,KT09,KT10,KT11,KT12,KT13,KT14,KT15,KT16,KT17,KT18,KT19,KT20

**End Uses:** Paving playground,athletic ground, kindergarten, making rubber mats, artificial grass infill

**Manufacturer/Supplier:** CASSIEL TRADING CO.,LTD

Jinbeijayuan 6.building,802 P.R China

**Tel:** +8613516959923

### 2. Hazards Identification

According to EC Regulation No. 453/2010.

**Classification according to the European Community Directive 67/548/EEC, 1999/45/EC and subsequent amendments**

**Classification:** Not classified.

**Classification according to Regulation (EC) 1907/2006 (REACH)**

**Classification:** Not classified. This product is not classified as hazardous according to Regulation (EC) No. 1907/2006.

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

**Classification:** Not classified. This product is not classified as hazardous according to Regulation (EC) No. 1272/2008 .

See section 11 for more detailed information on health effects and symptoms.

### 3. Composition/Information on Ingredients

#### Chemical Characterization

Declaration of ingredients according to (EC) No 1907/2006:

This document shall not be reproduced except in full without written approval by the laboratory. The result(s) shown in this test report refer(s) only to the sample(s) tested. If you want to search the report item, you can enter in [www.ltlab.com.cn](http://www.ltlab.com.cn) then input ID number.

<i>Substance</i>	<i>CAS #</i>	<i>Amount%</i>	<i>CLP Classification</i>
<i>Calcium carbonate</i>	<i>471-34-1</i>	<i>72</i>	<i>Not classified</i>
<i>EPDM</i>	<i>9010-79-1</i>	<i>18</i>	<i>Not classified</i>
<i>Lubricant Oil</i>	<i>N/A</i>	<i>5</i>	<i>Not classified</i>
<i>Pigment</i>	<i>N/A</i>	<i>3</i>	<i>Not classified</i>
<i>Curing Agent</i>	<i>N/A</i>	<i>2</i>	<i>Not classified</i>

#### 4. First-Aid Measures

**Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water, lifting upper and lower eyelids occasionally. Get medical advice if irritation occurs.

**Skin Contact:** No adverse effects anticipated under normal conditions. However, if dust exposure occurs, wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.

**Inhalation:** Remove victim to fresh air. Obtain medical attention if irritation persists.

**Ingestion:** Ingestion is unlikely under normal conditions. If ingested, rinse mouth with water. Get medical aid.

#### 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** Use water fog, dry chemical, carbon dioxide, or chemical foam.

**Special Exposure Hazards Arising From the Substance Itself or Combustion Products:** If this product is involved in a fire, the following can be released: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), calcium oxide(CaO) etc.

**Special Protective Equipment for Fire-Fighters:** Firefighters must wear fire resistant protective equipment. Wear self-contained breathing apparatus.

#### 6. Accidental Release Measures

**Personal Precautions:** For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

**Precautions to Protect the Environment:** Not required.

**Methods for Cleaning Up:** Pick up mechanically. No special measures required. Avoid generating dusty conditions.

#### 7. Handling and Storage

##### Handling

**Advices on Safe Handling:** Provide appropriate exhaust ventilation. Use the proper personal protective

This document shall not be reproduced except in full without written approval by the laboratory. The result(s) shown in this test report refer(s) only to the sample(s) tested. If you want to search the report item, you can enter in [www.ltlab.com.cn](http://www.ltlab.com.cn) then input ID number.

equipment during handling. Minimize dust generation and accumulation. Avoid inhaling concentrated vapors.

#### **Storage**

Store in cool place. Keep the samples away from oxidising agents, strong acid, strong alkali.

## **8. Exposure Controls/Personal Protection**

**Exposure Limits:** No exposure limits have been established for this material.

**Engineering Controls:** Suggest supply with sufficient partial air exhaust in bulk storage.

#### **Personal Protective Equipment:**

**Respiration Protection:** For most conditions, no respiratory protection should be needed. However, in cases of dust formation, NIOSH-approved respiratory protection meeting the requirements of 29 CFR 1910.134 may be needed. If the material is over heated and starts smoldering, wear a positive pressure self-contained breathing apparatus for respiratory protection.

**Eye Protection:** Not necessary under normal conditions. If there is a potential exposure to particles, which could cause mechanical injury to the eye, wear safety glasses or safety goggles.

**Skin and Body Protection:** Wear appropriate protective clothing and appropriate gloves. Wash skin if contacted by pellets. Wash contaminated clothing before reusing.

**Hygiene Measures:** Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities.

## **9. Physical and Chemical Properties**

<b>General Information</b>	
<b>Form:</b>	Irregular Granules
<b>Color:</b>	GREEN,BLUE, YELLOW,ORANGE, IVORY, ETC.
<b>Odor:</b>	A little rubber smell
<b>pH:</b>	N/A
<b>Melting Point/Range:</b>	N/A
<b>Boiling Point/Range:</b>	N/A
<b>Percent Volatility:</b>	N/A
<b>Flash Point:</b>	N/A
<b>Density:</b>	$1.56 \pm 0.03 \text{g/cm}^3$
<b>Vapor Pressure:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>Evaporation Rate &amp; Reference:</b>	N/A
<b>Solubility in Water:</b>	Insoluble
<b>Explosion Limits in Air - Upper :</b>	N/A
<b>Explosion Limits in Air - Lower:</b>	N/A

This document shall not be reproduced except in full without written approval by the laboratory. The result(s) shown in this test report refer(s) only to the sample(s) tested. If you want to search the report item, you can enter in [www.ltlab.com.cn](http://www.ltlab.com.cn) then input ID number.

## 10. Stability and Reactivity

**Stability:** Stable under normal usage and storage.

**Incompatibility (Materials to Avoid):** Strong oxidant, Strong acid, Strong alkali.

**Conditions to Avoid:** Keep away from open flames, hot surfaces, and sources of ignition. Avoid contact with Incompatible materials.

**Hazardous Decomposition and/or Combustion Products:** If this product is involved in a fire, the following can be released: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), calcium oxide(CaO) etc.

**Hazardous Polymerization:** Will not occur.

## 11. Toxicological Information

**Acute Toxicity:** No data available.

**Serious Eye Damage/Eye Irritation:** No data available.

**Respiratory or Skin Sensitization:** No data available.

**Germ Cell Mutagenicity:** None of the components of this product lead to germ cell mutagenicity .

**Carcinogenicity:** None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA.

**Reproductive Toxicity:** None of the components of this product lead to reproductive toxicity.

**Specific Target Organ Toxicity - Single Exposure:** None of the components of this product is hazardous to target organ through single exposure.

**Specific Target Organ Toxicity - Repeated Exposure:** None of the components of this product is hazardous to target organ through repeated exposure.

**Aspiration Hazard:** No data available.

**Potential health effects**

**Inhalation:** Cannot be inhaled. Avoid inhaling concentrated vapors in bulk storage.

**Ingestion:** Ingestion is unlikely under normal conditions.

**Skin contact:** No irritating effect.

**Eye contact:** No irritating effect.

## 12. Ecological Information

**Ecotoxicity:** No data available.

**Biodegradable:** No data available.

**Non-biodegradable:** No data available.

**Bioconcentration or biological accumulation:** No data available.

## 13. Disposal Considerations

**Waste Disposal Methods:** Firstly should consider the recovery or recycling as possible. Disposal must be

This document shall not be reproduced except in full without written approval by the laboratory. The result(s) shown in this test report refer(s) only to the sample(s) tested. If you want to search the report item, you can enter in [www.ltlab.com.cn](http://www.ltlab.com.cn) then input ID number.

made according to local and national regulations.

## 14. Transport Information

### Road Regulation (ADR/RID)

It is not classed as hazardous chemicals in ADR/RID Regulations.

### Air Transportation (IATA/ICAO)

It is not classed as hazardous material or dangerous goods for transportations under IATA/ICAO Regulations.

### Marine Transportation (IMO/IMDG)

It is not regulated as hazardous material or dangerous goods for transportation under IMO/IMDG Regulation.

## 15. Regulatory Information

### **European Information**

This safety data sheet has been prepared according to EC Regulation No. 453/2010. The product has been classified in accordance with EC Regulations, No. 1272/2008/EC, No. 1999/45/EC and No. 67/548/EEC.

### **United States Regulations**

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**United States inventory (TSCA 8b):** This material is listed or exempted.

**California Proposition 65:** This product does not intentionally contain any chemicals which have been identified by the state of California to cause cancer, birth defects or other reproductive harm.

### **Austrilian Regulations**

**Hazardous Substances Information List:** Not listed

## 16. Other Information

**Abbreviations:** pH - Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

OSHA- Occupational Safety and Health Administration

NTP – National Toxicology Program

IARC- International Agency for Research on Cancer

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds

ACGIH – The American Conference of Governmental Industrial Hygienists

ADR –Agreement on Dangerous Goods by Road

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

ICAO –International Civil Aviation Organization

IATA –International Air Transport Association

IMO – International Marine Organization

IMDG - International Maritime Dangerous Goods

This document shall not be reproduced except in full without written approval by the laboratory. The result(s) shown in this test report refer(s) only to the sample(s) tested. If you want to search the report item, you can enter in [www.ltlab.com.cn](http://www.ltlab.com.cn) then input ID number.

**Further Information:**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Department Issuing SDS:** CASSIEL TRADING., CO, LTD

**Issue Date:** August 4, 2015

This SDS Service is Provided by ZHEJIANG LANDER STANDARD TECHNOLOGY CO., LTD.

Signed for and on behalf of

Lander Testing Lab

*Liu Lingnan*

Liu Lingnan

Chemistry Lab Engineer

Date: August 4, 2015



\*\*\*\*\*End\*\*\*\*\*

This document shall not be reproduced except in full without written approval by the laboratory. The result(s) shown in this test report refer(s) only to the sample(s) tested. If you want to search the report item, you can enter in [www.ltlab.com.cn](http://www.ltlab.com.cn) then input ID number.

---

**ZHEJIANG LANDER STANDARD TECHNOLOGY CO., LTD.**

ADD: 206 Room, No.6 Building, No.431, Kaixuan Road, Hangzhou City, Zhejiang Province 310020

TEL:+(86) 571 86043999 FAX:+(86) 571 87906666 Free Line: 400 883 4444 <http://www.ltlab.com.cn> E-mail:info@ltlab.com.cn

---