



**MATERIAL SAFETY DATA SHEET - MSDS**  
(Based on ABNT – NBR14725 07/01)

**Chemical product identification: Blend of semi-sodic bentonite and marine origin natural polymer and vegetable origin natural polymer.**

**MSDS nr:** BUN-SP-LB-005  
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**Last Revision:** 03.31.2006

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Chemical product identification:** Blend of semi-sodic bentonite and marine origin natural polymer and vegetable origin natural polymer.  
**Trade Name:** LiquiBead 10 PC Red D2.  
**Product use:** Personal care product additive.  
**Manufacturer Identification:**  
**Name:** Buntech Advanced Compound Technology Ltd.  
**Address:** Rua Eng. Francisco Pitta Brito, 779 - 5º floor  
Sao Paulo - SP - Brazil - 04753 - 080  
**Telephone:** (+ 55 11 ) 2112 6600  
**E-Mail:** [cpt@bentonit.com.br](mailto:cpt@bentonit.com.br)

**SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS**

**Chemical Names:**

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**Hazardous Ingredients**

Crystalline Silica (quartz, 14808 – 60 – 7) is present at  $\leq 9.0$  % as a naturally occurring component not removed from the clay ore in processing. See Section 11 for further information.

**SECTION 3: HAZARDS IDENTIFICATION**

HMIS Rating:

**Health** = 1\* ( possible hazard from chronic exposure to dust, see Section 11 )

**Flammability** = 0, **Reactivity** = 0, **Personal Protective Equipment** = E

**EMERGENCY OVERVIEW:** Under normal usage or contained spills this material does not pose a significant emergency risk. This material may be slippery when wetted with water. Appropriate precautions should be taken to avoid slips and falls.

POTENTIAL HEALTH EFFECTS:

**Eyes:** May cause slight eye irritation. Direct contact should be avoided to prevent physical damage.

**Skin:** None known.

**Inhalation:** Short term exposure to high dust levels could cause minor irritation. Long term exposure to high concentrations of dust should be avoided due to the presence of quartz which can cause severe and permanent lung damage when inhaled. Control dust levels with engineering controls (local exhaust ventilation). Prevent dust inhalation with use of a NIOSH approved dust respirator if engineering controls are inadequate.

**Carcinogenicity:** IARC has classified crystalline silica as a human carcinogen.

**Target Organs:** Lungs.



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#### **SECTION 4: HAZARDS IDENTIFICATION**

**Skin:** Wash off with soap and water.  
**Eye:** Flush with tepid water for 15 minutes. If irritation or pain persists, seek medical attention.

**Inhalation:** Remove person to fresh air. Seek medical attention if shortness of breath or irritation persists.

**Ingestion:** Could result in intestinal blockage. If large amounts are swallowed seek medical attention.

**Notes to Physician:** Mixture is orally non-toxic. See Section 11 for additional toxicological data.

#### **SECTION 5: FIRE FIGHTING MEASURES**

<b>Flashpoint:</b>	Not applicable
<b>Upper Explosive Limit:</b>	Not applicable
<b>Lower Explosive Limit:</b>	Not applicable
<b>Autoignition Temperature:</b>	Not applicable
<b>Thin-film Ignition Temperature:</b>	Not applicable
<b>Known or anticipated hazardous products of combustion:</b>	None
<b>Basic fire fighting guidance:</b>	Not applicable
<b>Extinguishing media:</b>	Not applicable

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Wet down large spills with water mist to avoid generating excessive dust levels. Caution: This material may be slippery when wet. Appropriate precautions should be taken avoid slips and falls.

Clean-up procedures and equipment: Use of a dustless vacuum system or shoveling. Flushing with water is also an acceptable method. Avoid dry sweeping or other methods that may generate high dust concentrations. Wear NIOSH approved dust respirator.

#### **SECTION 7: HANDLING AND STORAGE**

**Handling:** Adequate ventilation is necessary in handling areas to prevent excessive airborne dust.  
**Storage:** Store in closed containers in a dry area.

#### **SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Engineering Controls:**  
Provide general or local ventilation adequate to maintain airborne levels below occupational exposure limits.

**Personal Protection Equipment:**

**Eye/face:** Use safety glasses or goggles.  
**Skin:** None  
**Respiratory:** Use a NIOSH approved, air purifying dust respirator if dust levels are above exposure limits.  
Half-masks are usually sufficient for normal use.



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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Red Granules
<b>Odor:</b>	None
<b>Physical State:</b>	Solid
<b>pH:</b>	9.0
<b>Vapor Pressure:</b>	Not Applicable
<b>Vapor Density:</b>	Not Applicable
<b>Boiling Point:</b>	Not Applicable
<b>Melting Point:</b>	Not Applicable
<b>Solubility in Water:</b>	Negligible
<b>Specific Gravity:</b>	0.9 g/cm <sup>3</sup>

### SECTION 10: STABILITY AND REACTIVITY

<b>Incompatibilities:</b>	None.
<b>Conditions to avoid:</b>	Not applicable.
<b>Stability:</b>	This material is stable under normal storage and handling conditions.
<b>Hazardous Polymerization:</b>	Not applicable.

### SECTION 11: TOXICOLOGICAL INFORMATION

Over-exposure to Crystalline Silica (long contact without protection) can cause lung silicosis, a progressive lung disease in humans. Health affects from exposure to Crystalline Silica occur only when it is inhaled.

<b>Inhalation Effects:</b>	Crystalline Silica has been shown to cause silicosis and lung cancer. Crystalline Silica only causes these conditions when inhaled.
<b>Skin Contact:</b>	Prolonged skin contact may lead to drying or cracking of the skin due to H <sub>2</sub> O absorption properties of the clay.
<b>Eye Contact:</b>	As with any dust, will be irritating to the eyes due to physical scratching.
<b>Medical Conditions Aggravated:</b>	Respiratory disorders

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicological Information:** None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in a manner in accordance with local and federal regulations.  
This information applies to materials as manufactured; contamination or processing may change waste characteristics and requirements.

### SECTION 14: TRANSPORT INFORMATION

This material is not regulated by the Department of Transportation.



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#### **SECTION 15: REGULAMENTATION**

Regulamentation: None.

#### **SECTION 16: OTHERS INFORMATIONS**

Prepared by Buntech's Technical Department  
Emergency, please contact Mr. Luiz Camargo – Technical Coordinator (phone: + 55 11 5687 5503)  
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