



# Material Safety Data Sheet

## Humidity Indicator Card, Cobalt-free

### SECTION 1: Chemical Product and Company Identification

Date Issued: November 14, 2008  
Product Brand: HumiSafe™ (Humidity Indicator Card, Cobalt-free)  
Manufacturer Name: GP&E Co., Ltd.  
Manufacturer Address: 1307, Gwanpyeong, Yuseong, Daejeon, 305-509, Korea  
Business Phone: 82-42-864-2055, 862-2056~7  
Business Fax: 82-42-863-2055

### SECTION 2: Composition, Information or Ingredients

Composition:

Name	CAS No.	Percent	OSHA PELs	ACGIH TLVs
Blotting Paper	-	> 99.90	-	-
Commercial Ink	-	< 0.05	-	-
Magnesium Sulfate	7487-88-9	< 0.04	-	-
pH Indicating Agent	-	< 0.02	-	-

EU Classification and Labeling Information: Not classified in the Annex I of Directive 67/548/EEC  
Toxicological Data on Ingredients: Not applicable

### SECTION 3: Hazards Identification

Appearance and Odor: The product is an odorless, white pulp sheet, black ink and yellow to green humidity indicating spots  
Potential Acute Health Effects: Not available  
Potential Chronic Health Effects: Not available

### SECTION 4: First Aid Measures

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.  
Skin Contact: Wash skin with soap and water for at least 15 minutes.  
Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.  
Ingestion: Give several glasses of water to drink to dilute.

### SECTION 5: Fire-Fighting Measures

Extinguishing Media:	Use extinguishing measures appropriate to the environment.
Unsuitable Media:	None

### SECTION 6: Accidental Release Measures

Spill Cleanup Measures:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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### SECTION 7: Handling and Storage

Handling:	No special precautions required
Storage:	Keep in a dry place

### SECTION 8: Exposure Controls, Personal Protection

Skin Protection:	Not required
Eye Protection:	Not applicable
Respiratory:	Not applicable

### SECTION 9: Physical and Chemical Properties

Physical Status and Appearance:	Plate cellulosic paper
Color:	Yellow to green, white paper and black print
Odor:	Odorless
pH:	6.5 - 9.0

### SECTION 10: Stability and Reactivity

Chemical Stability:	Stable
Conditions to Avoid:	Hygroscopic
Materials to Avoid:	Strong-oxidizing agents
Reformed Hazards when Decomposed:	None
Possibility of Toxic Decomposition:	None

### SECTION 11: Toxicological Information

Acute Oral Toxicity:	Not available
Acute Inhalation Toxicity:	Not available
Acute Dermal Toxicity:	Not available

Carcinogenicity:	Not available
Chronic Toxicity:	Not available
Teratogenicity:	Not available

#### SECTION 12: Ecological Information

Ecotoxicity:	No data available
Environmental Fate:	Not available
Decomposition:	Not available

#### SECTION 13: Disposal Considerations

Waste Disposal:	Dispose of container and unused contents in accordance with all applicable federal, provincial, state, and local environment requirements.
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#### SECTION 14: Transport Information

Land Transport:	Not classified as dangerous in the meaning of transport regulations.
Sea Transport:	Not classified as dangerous in the meaning of transport regulations.
Air Transport:	Not classified as dangerous in the meaning of transport regulations.

#### SECTION 15: Regulatory Information

Applies to All Ingredients:	The product is classified and labeled in accordance with EC directives or respective national laws.
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#### SECTION 16: Other Information

Risk to Human and Environment:	None – this product is free from hazardous chemicals such as Cobalt dichloride( $\text{CoCl}_2$ ), Cobalt dibromide( $\text{CoBr}_2$ ), or Copper dichloride( $\text{CuCl}_2$ ).
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