

HENG SAN MULTISORB SDN. BHD. (669066-W)

7, Jalan PJS 1/17, Medan Maju Jaya 3, 46000 Petaling Jaya, Selangor Darul Ehsan, Malaysia.

Tel : + 603 . 7781 5987

Fax : + 603 . 7781 5984

Technical Data Sheet

Product And Company Identification	
Company Name :	Heng San Multisorb Sdn Bhd
Product Name :	Humidity Indication card

Section 1. Material Identification	
Product Formula	Paper (cellulose pulps), Cobalt Chloride Zinc Chloride Lithium Chloride

Components – Chemical Name & Common Name (Hazardous Components 1% or greater, Carcinogens 0.1% or greater)	%	OSHA PEL	ACGIH TLV	Other limits Recommended
Paper (cellulose Pulps)	99-100%	5mg/m ³ (respirable dust) 15gm/m ² (total dust)	10mg/m ³ (total dust)	N/A
Cobalt Chloride	1.0% or less	0.5mg/m ³ (TWA, Cobalt metal dust & fume)	0.05mg/m ³ (Cobalt, TWA)	N/A
Zinc Chloride	Less than 0.1%	TWA 1mg/m ³ STEL 2mg/m ³	TWA 1mg/m ³ STEL 2mg/m ³ (fume)	N/A
Lithium Chloride	Less than 0.5%	N/A	N/A	N/A
Non-Hazardous Ingredients				
Total	100			

Section 2. Physical Data	
Boiling Point	N/A
Melting Point	N/A
Vapor Density	N/A
Solubility in Water	Insoluble
Water Reactive	Moisture will cause the indicating areas to change color
Appearance and odor	Heavy, white paper, no odor

Section 3. fire and Explosion Hazard Data	
Flash Point	N/A
Auto-Ignition Temperature	N/A
Flammability Limits in Air% by Volume	N/A
Extinguisher Media	Use water, fog or carbon dioxide
Special Fire Fighting Procedures	None – treat as a paper fire
Unusual Fire and Explosion Hazards	None

Section 4. Reactivity Hazard Data	
Stability	Stable
Incompatibility (Materials to Avoid)	None
Hazardous Decomposition Products	Burning produces carbon dioxide, carbon monoxide and paper smoke
Hazardous Polymerization	Will not occur

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Section 5. Health Hazard Data	
Primary routes of entry	Inhalation, Skin Absorption, Ingestion
Health Hazards	
Acute	Dust may cause skin and respiratory irritation
Chronic	Dust may cause more pronounced skin and respiratory irritation
Signs and Symptoms of Exposure	Inhalation of dust can cause irritation in the respiratory system. Skin contact may cause irritation. Eye contact may cause irritation and burning.
Medical Conditions Generally Aggravated by Exposure	Pre-existing respiratory conditions may be aggravated by inhaling paper dust

Section 6. First Aid	
Eyes Contact	Flush with clear water, occasionally lifting eyelids to remove foreign body. Contact a physician
Skin Contact	Wash with mild soap and water
Inhalation	Remove from dust exposure to fresh air
Ingestion	Give large amount of water, Induce vomiting. Contact a physician
Seek medical assistance for future treatment, observation and support if necessary	

Section 7. Special Protection Information	
Respiratory Protection	None
Ventilation to be used	Local Exhaust
Protective Clothing	Wear protective gloves as required
Eye Protection	As required to protect against foreign body with eyes
Hygienic Work Practices	General Hygienic practices and good housekeeping. Wash away dust from skin

Section 8. Special Precautions	
Steps to be Taken if Material is spilled or released	Sweep up or vacuum up and put in sealed container
Waste Disposal Methods	Dispose in an approved landfill according to federal, state and local regulations.
Precautions to be Taken in Handling and Storage	Store in a cool dry location away from moisture
Other Precautions and/ or Special Hazards	none

Section 9. Physical And Chemical	
Physical State/Appearance:	
Color:	Form: Plates Pink to Blue
Odor:	None ^{4,56}
pH:	In Water: Partly soluble, max. 600 ppm CoCl ₂ can be leached out.

Section 10. Stability and Reactivity	
Conditions to Avoid:	Hygroscopic
Incompatibilities with Other Materials:	Material to avoid: Alkali metals
Hazardous Decomposition Products:	No decomposition if stored and applied as directed.

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Section 11. Toxicological Information	
Applies to All Ingredients:	
Ingestion Effects:	ACUTE LD50: Dose: 766mg/kg (cobalt (II)chloride-hexahydrate)
Sensitization:	May cause sensitization by skin contact.
Other Toxicological Information:	Repeated dose toxicity: No data available.

Section 12. Ecological Information	
Ecotoxicity:	No data available. Heavy metals: Heavy metals should not be released into the environment.
Environmental Fate:	Additional information about ecology: Heavy metals should not be released into the environment.
Decomposition:	Not readily biodegradable

Section 13. Disposal Considerations	
Waste Disposal:	Dispose as special waste Can be landfilled or incinerated, when in compliance with the Environmental protection (Duty of Care) Regulations 1991.

Section 14. Transport	
Transportation 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	
Applies to all ingredients:	The product is classified and labeled in accordance with EC directives or respective national laws.

Section 16. Additional Information	
Label Text:	Hazardous components which must be listed on the label: cobalt (II) chloride.
	Symbol(s): Xi – Irritant.
	R–phrase(s): R43 – May cause sensitization by skin contact.
	S–phrase(s): S24 – Avoid contact with skin.
	S28(I) – After contact with skin, wash immediately with plenty of water . S2 – Keep out of reach of children.
MSDS Revision Date:	11/01/2006
MSDS Author:	Environmental Protection .
	The information presented herein is believed to be accurate, but is not warranted.
Disclaimer:	It does not represent any assurance of properties of the product. The specifications are to be drawn from the corresponding leaflet. A vertical bar(!) in the left margin indicates an amendment from the previous version.