



# MATERIAL SAFETY DATA SHEET

**Date-Issued:** 04/23/2001  
**MSDS Ref. No:** 9000  
**Date-Revised:** 08/17/2004  
**Revision No:** 1

## Humidity Indicator Plug

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Humidity Indicator Plug  
**GENERAL USE:** Humidity indicator.  
**ALTERNATE TRADE NAME(S):** MIL-I-26860, MIL-I-8835

#### Manufacturer/Supplier

Süd-Chemie Performance Packaging  
 926 South 8th Street  
 Colton, CA 92324  
**Customer Service:** 800-966-1793

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (U.S.):** (800) 424-9300  
**Canutec** (613) 996-6666  
**Emergency Phone:** 502-634-7200

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>
Cobalt (II) Chloride	<1	7646-79-9

**COMMENTS:** The support manufactured from aluminum or brass metals is considered to be an "article." Chemical hazards stated below are related to the very small amount of Cobalt Chloride applied to the paper disc found inside the metal plug.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Paper disc in a metal plug with a plastic or glass window.

**IMMEDIATE CONCERNS:** Poses little or no immediate hazard.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Route of exposure unlikely. Rubbing eyes after handling paper disc may cause irritation. Use of proper chemical hygiene should prevent exposure.

**SKIN:** No adverse effects expected.

**INGESTION:** Route of exposure unlikely.

**INHALATION:** No hazard in normal industrial use.

**MEDICAL CONDITIONS AGGRAVATED:** None

#### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Wash with soap and water.

**INGESTION:** Normally not needed. If large quantities are ingested, seek medical advice.

#### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use extinguishing agent applicable to surrounding fire.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** No special precautions required.

**LARGE SPILL:** With shovel or scoop, place material into appropriate container.

#### 7. HANDLING AND STORAGE

**HANDLING:** No special precautions required.

**STORAGE:** Store in a dry area.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### EXPOSURE GUIDELINES:

##### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	TWA	<u>EXPOSURE LIMITS</u>			
		<u>OSHA PEL</u>		<u>ACGIH TLV</u>	
		<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>
Cobalt (II) Chloride		[1]		[2]	0.02

##### OSHA TABLE COMMENTS:

1. Not Established

2. as Co

**ENGINEERING CONTROLS:** No special ventilation requirements.

##### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** None needed during normal use and handling.

**SKIN:** Use of proper hygiene practices in the workplace is recommended.

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**RESPIRATORY:** None needed during normal use and handling.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid

**ODOR:** None

**SOLUBILITY IN WATER:** Slightly soluble

**DENSITY:** Not Determined

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## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**ORAL LD<sub>50</sub>:** 80 mg(Cobalt II Chloride)/kg rodent (rat)

**SENSITIZATION:** Cobalt and cobalt compounds have been shown to cause hypersensitivity including allergic skin and respiratory reactions. (Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. New York, NY: Van Nostrand Reinhold)

### CARCINOGENICITY:

**IARC:** Group 2B: Cobalt and cobalt compounds are possibly carcinogenic to humans.

**NTP:** Not listed.

**OSHA:** Not listed.

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## 12. ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION:

Aquatic Toxicity (Cobalt (II) Chloride):

96-hr LC50 (R. hexadactyla) = 17,590 ug/L

96-hr LC50 (X. laevis) = 10,400 ug/L

48-hr LC50 (R. hexadactyla) = 25,990 ug/L

24-hr LC50 (R. hexadactyla) = 32,220 ug/L

48-hr EC50 (T. tubifex) = 447, 710 ug/L

96-hr LC50 (B. sowerbyi) = 132,620 ug/L

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### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** This product, if discarded as sold, is not a RCRA hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

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### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not regulated

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### 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:**

**FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: NO CHRONIC: NO**

**313 REPORTABLE INGREDIENTS:** Cobalt compounds.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Not listed.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** All components are listed on the TSCA Inventory or are excluded or exempt.

**RCRA STATUS:** This product, if discarded as sold, is not a RCRA hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

**CLEAN AIR ACT**

**APPENDIX A: HAZARDOUS AIR POLLUTANTS (AIR TOXICS):** Contains component(s) contained on the original list of hazardous air pollutants.

**CANADA**

**WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM):** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**WHMIS CLASS:** D2A/D2B

**CANADA INGREDIENT DISCLOSURE LIST:** Contains component(s) listed on the Canadian Hazardous Products Act Ingredient Disclosure List.

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All ingredients are listed on the Canadian Domestic Substances List inventory.

**STATE REGULATIONS** California

**CALIFORNIA PROPOSITION 65:** This product does not contain chemical(s) known to the state of California to cause cancer, birth

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defects, or reproductive harm.

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## 16. OTHER INFORMATION

**APPROVED BY:** Prepared and Approved by SHE Dept. Sud-Chemie Inc

### REVISION SUMMARY

**Date-Issued:** 04/23/2001

Revision #: 1 This MSDS replaces the August 17, 2001 MSDS. Any changes in information are as follows: In Section 1 General Use Statement Prepared By In Section 3 Potential Health Effects - Eyes Potential Health Effects - Skin Potential Health Effects - Ingestion Signs & Symptoms - Eyes Signs & Symptoms - Ingestion Signs & Symptoms - Inhalation Signs & Symptoms - Skin Medical Conditions Aggravated In Section 4 Firstaid - Eyes Firstaid - Skin Firstaid - Inhalation In Section 6 Small Spill Large Spill In Section 8 Section 8 Footnotes In Section 11 Sensitization In Section 12 Environmental Data Ecotoxicological Information In Section 13 Disposal In Section 15 Accute RCRA Status WHMIS WHMIS Class CANADA Ingredient Disclosure List CEPA

**MANUFACTURER DISCLAIMER:** The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.