

Plug Card, 234P, 20-40% RH, .81 Dia

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**SECTION 1. IDENTIFICATION**

<b>Identification of the company:</b>	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
<b>Information of the substance/preparation:</b>	Product Stewardship, +1-704-331-7710
<b>Emergency tel. number:</b>	+1 800-424-9300 CHEMTREC

**Trade name:** Plug Card, 234P, 20-40% RH, .81 Dia  
**Material number:** 256527  
**Chemical family:** cobalt dichloride on cardboard  
**Primary product use:** Indicator for air humidity

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Respiratory sensitisation : Category 1  
Skin sensitisation : Category 1  
Germ cell mutagenicity : Category 2  
Carcinogenicity (Inhalation) : Category 1B  
Reproductive toxicity : Category 1B

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H341 Suspected of causing genetic defects.  
H350i May cause cancer by inhalation.  
H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read

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and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

P281 Use personal protective equipment as required.

P285 In case of inadequate ventilation wear respiratory protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

No additional hazards are known except those derived from the labelling.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

- |                     |                                  |
|---------------------|----------------------------------|
| Substance / Mixture | • Mixture                        |
| Chemical nature     | • cobalt dichloride on cardboard |

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Cobalt dichloride	7646-79-9	1 - 2.5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**SECTION 4. FIRST AID MEASURES**

- |                         |  |
|-------------------------|--|
| General advice          | : Take off all contaminated clothing immediately.<br>Show this safety data sheet to the doctor in attendance.  |
| If inhaled              | : INHALATION: If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop.<br>Remove to fresh air. |
| In case of skin contact | : Avoid contact with skin.<br>Wash area with mild soap and copious amounts of water.   |

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	Remove contaminated clothing and shoes. Wash clothing before reuse. If skin irritation occurs: Get medical advice/ attention.
In case of eye contact	: Do not rub affected area. Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed	: Do NOT induce vomiting. Call your local Poison Control Center (In the U.S. call 1-800-222-1222).
Most important symptoms and effects, both acute and delayed	: The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.
Notes to physician	: Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Dry powder Foam Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	: In case of fire can be formed: breathable cobalt/cobalt oxide dust
Further information	: Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	: Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wearing appropriate personal protective equipment, contain spill and collect into a suitable container. No special precautions required.
Environmental precautions	: Do not flush into surface water or sanitary sewer system.

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Methods and materials for containment and cleaning up : Take up uncontaminated material and pass on for further processing.  
Take up contaminated material by mechanical means, load into clean containers, and dispose of in accordance with legal regulations.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage : Keep tightly closed in a dry and cool place.

Technical measures/Precautions : Store in a dry place.

Materials to avoid : No materials to be especially mentioned.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Cobalt dichloride	7646-79-9	TWA	0.02 mg/m <sup>3</sup> (Cobalt)	ACGIH
Further information: Pulmonary function, Asthma, Myocardial effects, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Confirmed animal carcinogen with unknown relevance to humans, varies				

**Engineering measures** : none

**Personal protective equipment**

Respiratory protection : Follow facility guidelines.

Hand protection  
Remarks : Wear protective gloves. Wash thoroughly after handling.

Eye protection : Follow facility guidelines in the absence of dusts.

Skin and body protection : Use of proper hygiene practices in the workplace is recommended.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance	: Plates
Particle size :	not tested.
Colour	: blue to pink
Odour	: none
Odour Threshold	: Not relevant
pH	: 4.5 - 6
Melting point	: not determined
Boiling point	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: not determined
Upper explosion limit	: not tested.
Lower explosion limit	: not tested.
Combustion number :	not determined
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: not tested.
Density	: not tested.
Bulk density	: not tested.
Solubility(ies)	
Water solubility	: partly soluble, max. 2,5% CoCl <sub>2</sub> can be leached out.
Solubility in other solvents	: not tested.
Partition coefficient: n- octanol/water	: not determined
Auto-ignition temperature	: Not applicable
Decomposition temperature	: no data available
Viscosity	
Viscosity, dynamic	: Not applicable

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Viscosity, kinematic	: Not applicable
Flow time	: Not applicable
Explosive properties	: no data available
Oxidizing properties	: not tested.
Sublimation point	: not determined

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: Exposure to moisture (hygroscopic).
Incompatible materials	: Water
Hazardous decomposition products	: No decomposition if stored and applied as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Eye contact  
Skin contact  
Ingestion

**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation****Product:**

Remarks: no data available

**Serious eye damage/eye irritation****Product:**

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Remarks: no data available

**Respiratory or skin sensitisation****Product:**

Remarks: no data available

**Carcinogenicity**

<b>IARC</b>	Listed
<b>OSHA</b>	Not listed
<b>NTP</b>	Not listed

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

**Further information****Product:**

Remarks: No data is available on the product itself.  
Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish :  
Remarks: no data available

M-Factor (Acute aquatic toxicity) : 10

**Persistence and degradability****Product:**

Biodegradability : Remarks: no data available

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: no data available

**Mobility in soil****Product:**

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Distribution among environmental compartments : Remarks: no data available

**Other adverse effects****Product:**

Additional ecological information : water endangering

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

Waste Code : NONE

Waste from residues : This product, if discarded as sold, is not a Federal 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.

Contaminated packaging : Dispose of as unused product.

**SECTION 14. TRANSPORT INFORMATION**

**DOT** not restricted

**IATA**

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Class: 9  
Packing group: III  
UN/ID number: UN 3077  
Primary risk: 9  
Remarks: Shipment permitted  
Hazard inducer(s): Cobalt dichloride

**IMDG**

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Class: 9  
Packing group: III  
UN no.: UN 3077  
Primary risk: 9  
Hazard inducer(s): Cobalt dichloride  
Marine pollutant: Marine Pollutant  
EmS: F-A S-F

**Further information:**

Non-dangerous good of class 9 for packagings < 5L / 5 kg



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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This product contains the chemical or chemicals listed below which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 ("SARA") and the requirements of 40 CFR Part 372:

Cobalt Compounds	Not Assigned	2.5 %
Cobalt	7440-48-4	1.15 %

**Clean Water Act**

Contains no known priority pollutants at concentrations greater than 0.1%.

**The components of this product are reported in the following inventories:**

TSCA : All components of this product are listed or excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Inventory.

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**SECTION 16. OTHER INFORMATION****Further information**

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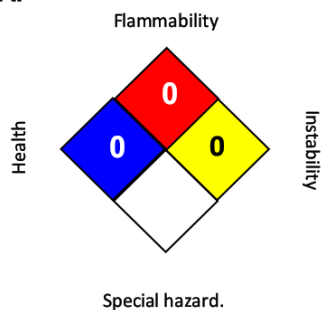
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**NFPA:**



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This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

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