

# HI Card, MS051015, 5, 10, 15% RH

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### **SECTION 1. IDENTIFICATION**

Identification of the **Clariant Corporation** 

company: 4000 Monroe Road Charlotte, NC, 28205

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Stewardship, +1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: HI Card, MS051015, 5, 10, 15% RH

Material number: 248784

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

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.

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

and understood.

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



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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.

 $\mbox{P308} + \mbox{$\bar{\rm P}$313}$  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 (% w/w)
Cobalt dichloride	7646-79-9	0.025 - 0.25

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.

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.

Remove to fresh air.

In case of skin contact : Avoid contact with skin.

Wash area with mild soap and copious amounts of water.

Remove contaminated clothing and shoes.

Wash clothing before reuse.



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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 (CO2)

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.

for firefighters

Special protective equipment : 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.

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



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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/m3 (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**

Appearance : Plates

Colour : blue to pink



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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. 0,25% CoCl2 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

Viscosity, kinematic : Not applicable

Flow time : Not applicable

Explosive properties : no data available



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Oxidizing properties : not tested.

Sublimation point : not determined

Minimum ignition energy : not tested.

Particle size : not tested.

### **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 : Remarks: no data available

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:**

Remarks: no data available



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### Respiratory or skin sensitisation

**Product:** 

Remarks: no data available

Carcinogenicity

IARC Listed

OSHA Not listed

NTP 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.

### **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:** 

Distribution among : Remarks: no data available

environmental compartments



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#### Other adverse effects

**Product:** 

Additional ecological

information

: water endangering

hazardous waste.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

RCRA - Resource

Waste from residues

Conservation and Recovery

Authorization Act Waste Code

: NONE

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

This product, if discarded as sold, is not a Federal RCRA

regulations.

Contaminated packaging : Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

DOT not restricted

IATA not restricted

IMDG not restricted

### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

### **CERCLA Reportable Quantity**

A characteristic waste RQ of 100 lbs applies to this product in a waste form: NONE

#### **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.



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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 0.25 %

Cobalt 7440-48-4 0.12 %

#### **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 Listed on TSCA

**TSCA list** 

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System: IARC - International Agency for Research on Cancer: IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration. Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations



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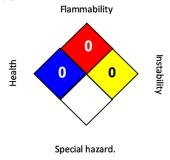
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Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

#### NFPA:



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