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SECTION 1. IDENTIFICATION

Identification of the **Clariant Corporation**

500 East Morehead Street company:

Charlotte, NC, 28202

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com

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

HI Card, 6203-100 Trade name:

Material number: 255079

Chemical family: cobalt dichloride on cardboard

Primary product use: Indicator for air humidity

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory sensitisation : Category 1

Skin sensitisation Category 1

Germ cell mutagenicity Category 2

Carcinogenicity (Inhalation) Category 1B

Category 1B Reproductive toxicity

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. H350 May cause cancer by inhalation.

H360F May damage fertility.



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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. P272 Contaminated work clothing must not be allowed out of

the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

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 person to fresh air and keep 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

Components

Chemical name	CAS-No.	Concentration (% w/w)
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.

Show this safety data sheet to the doctor in attendance.



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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.

Remove contaminated clothing and shoes.

Wash off immediately with soap and plenty of water.

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 : The product itself does not burn.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

No information available.

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

No special precautions required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective equipment.



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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

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

SECTION 7. HANDLING AND STORAGE

Technical measures : no data available

Advice on safe handling : Wash thoroughly after handling.

Use only with adequate ventilation and proper protective

eyewear, gloves, and clothing. Avoid contact with eyes.

Avoid prolonged or repeated contact with skin. Minimize dust generation and accumulation.

Do not grind the product. Avoid dust formation.

Do not breathe vapours/dust.

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

Further information on

storage conditions

: Store in a dry place.

Materials to avoid : No materials to be especially mentioned.

Further information on

storage stability

: Stable under recommended storage conditions.

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 (Inhalable particulate matter)	0.02 mg/m3 (Cobalt)	ACGIH

Engineering measures : none



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Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where

concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

by air purifying respirators against exposure to any

hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other

circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

Remarks : Wear protective gloves. Wash thoroughly after handling.

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

Skin and body protection : Wear protective clothing, including long sleeves and gloves,

to prevent skin contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Plates

Colour : blue to pink

Odour : none

pH : 5-7

Concentration: 2.5 %

Information refers to the main component.

Melting point : Not applicable

Boiling point : not determined (for a component of this mixture)

Flash point : Not applicable

Flammability (solid, gas) : not determined

Upper explosion limit / upper

flammability limit

Not applicable

Lower explosion limit / Lower : Not applicable



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flammability limit

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : no data available

Solubility(ies)

Water solubility : partly soluble, max. 2,5% CoCl2 can be leached out.

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : no data available

Viscosity

Viscosity, kinematic : Not applicable

Metal corrosion rate : Not applicable

Particle size : no data available

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:



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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

Components:

Cobalt dichloride:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Skin corrosion/irritation

Product:

Remarks: no data available

Serious eye damage/eye irritation

Product:

Remarks: no data available

Respiratory or skin sensitisation

Product:

Remarks: no data available

Components:

Cobalt dichloride:

Result: May cause sensitisation by skin contact.

Result: The product is a respiratory sensitiser, sub-category 1A.

Germ cell mutagenicity

Components:

Assessment

Cobalt dichloride:

Germ cell mutagenicity -

Suspected of inducing heritable mutations in the germ cells of

humans.

Carcinogenicity

Components:

Cobalt dichloride:

Carcinogenicity -

Assessment

: Possible human carcinogen



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IARC Group 2B: Possibly carcinogenic to humans

Cobalt dichloride 7646-79-9

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

: Clear evidence of adverse effects on sexual function and

NTP Reasonably anticipated to be a human carcinogen

Cobalt dichloride 7646-79-9

Reproductive toxicity

Components:

Cobalt dichloride:

Reproductive toxicity -

Assessment fertility, based on animal experiments.

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

Components:

Cobalt dichloride:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.



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Chronic aquatic toxicity Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Product:

: Remarks: no data available Biodegradability

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Mobility in soil

Product:

Distribution among Remarks: no data available

environmental compartments

Other adverse effects

Product:

Additional ecological

information

: obviously hazardous to water

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource

Conservation and Recovery

Authorization Act

Waste Code

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

hazardous waste.

: NONE

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

> 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

UN 3077 UN/ID number:

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

Hazard inducer(s): Cobalt dichloride



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Primary risk: 9
Packing group: III

Remarks: Shipment permitted

IMDG

UN no.: UN 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

Hazard inducer(s): Cobalt dichloride

Primary risk: 9
Packing group: III

Marine pollutant:
EmS:

Marine Pollutant
F-A S-F

Further information:

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

SECTION 15. REGULATORY INFORMATION

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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitisation

Germ cell mutagenicity Carcinogenicity Reproductive toxicity

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Cobalt dichloride 7646-79-9 >= 1 - < 5 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Cobalt dichloride 7646-79-9 >= 1 - < 5 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).



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Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

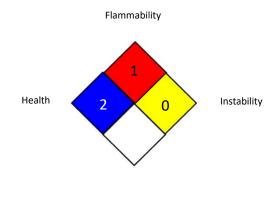
The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; 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



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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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

For additional information, contact Product Stewardship.

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