

# Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company  
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,  
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)  
Tel : + 91 98200 41841 Email : [info@ottokemi.com](mailto:info@ottokemi.com) Web : [www.ottokemi.com](http://www.ottokemi.com)

Creation Date: 20-08-2026

Revision Date: 18-07-2021

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name: Cobalt chloride test paper  
Product Code: C 2408  
CAS No: 7791-13-1

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet  
Company identification  
OTTO CHEMIE PVT LTD  
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,  
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number  
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture  
Classification (REGULATION (EC) No 1272/2008)  
Acute toxicity, Category 4  
Serious eye damage, Category 1  
Respiratory sensitisation, Category 1  
Skin sensitisation, Category 1  
Germ cell mutagenicity, Category 2  
Carcinogenicity, Category 1B  
Reproductive toxicity, Category 1B

Short-term (acute) aquatic hazard,  
Category 1  
Long-term (chronic) aquatic hazard,  
Category 1

2.2 Label elements  
Labelling (REGULATION (EC) No 1272/2008)  
Hazard pictograms  
Signal word  
Hazard statements

H302: Harmful if swallowed.  
H318: Causes serious eye damage.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317: May cause an allergic skin reaction.  
H341: Suspected of causing genetic defects.  
H350i: May cause cancer by inhalation.  
H360FD: May damage fertility. May damage the unborn child.  
H400: Very toxic to aquatic life.  
  
H410: Very toxic to aquatic life with long lasting effects.

:  
: Danger  
: H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H341 Suspected of causing genetic defects.  
H350i May cause cancer by inhalation.  
H360FD May damage fertility. May damage the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Response:  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of water.

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## Additional Labelling

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H334

H317

H341

H350i

H318

H360FD

Precautionary Statements

P280

P302 + P352

P305 + P351 + P338

P308 + P313

Supplemental Hazard  
Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.  
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

3.1 Substances

EC-No. : 231-589-4

Components

| Chemical name                    | CAS-No.<br>EC-No.      | Concentration (%<br>w/w) | M-Factor, SCL, ATE                                                                                                                                                                                      |
|----------------------------------|------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cobalt dichloride<br>hexahydrate | 7791-13-1<br>231-589-4 | >= 90 - <= 100           | M-Factor (Acute aquatic toxicity): 10<br>M-Factor (Chronic aquatic toxicity): 10<br>specific concentration limit Carc. 1B;<br>H350i >= 0,01 % Acute toxicity<br>estimate Acute oral toxicity: 537 mg/kg |

## SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aiders need to protect themselves.

Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist. Remove contact lenses.

If swallowed : After swallowing: immediately make victim drink water (two glasses at most).

Consult a physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Restricted to professional users.

:  
Danger

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer by inhalation.

Causes serious eye damage.

May damage fertility. May damage the unborn child.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention.  
none

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4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting

Not combustible.

Ambient fire may liberate hazardous vapours.

Hazardous combustion products

Hydrogen chloride gas

Cobalt/cobalt oxides

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Suppress (knock down) gases/vapours/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:

Avoid generation and inhalation of dusts in all circumstances.

Avoid substance contact. Ensure adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal considerations see section 13.

## SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions

Tightly closed. Dry. Keep in a well-ventilated place.

Keep locked up or in an area accessible only to qualified or authorised persons.

Storage class (TRGS 510) : 6.1D, Non-combustible, acute toxic Cat.3 / toxic

hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational Exposure Limits

### 8.2 Exposure controls

Personal protective equipment

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Full contact

Manufacturer : KCL 741 Dermatril® L

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Splash contact

Manufacturer : KCL 741 Dermatril® L

Remarks : This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Skin and body protection : protective clothing

Respiratory protection : required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P3

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Advice : Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                             |                        |
|-----------------------------|------------------------|
| Physical state              | : solid                |
| Form                        | : powder               |
| Color                       | : violet               |
| Odor                        | : odourless            |
| Melting point/ range        | : 56 °C                |
| Boiling point/boiling range | : 1.049 °C (1.013 hPa) |
| Flammability                | : No data available    |
| Upper explosion limit /     | : Not applicable       |
| Upper flammability limit    |                        |
| Lower explosion limit /     | : Not applicable       |
| Lower flammability limit    |                        |
| Flash point                 | : Not applicable       |
| Autoignition temperature    | : Not applicable       |
| Decomposition               | : No data available    |
| temperature                 |                        |
| pH                          | : 4,9 (25 °C)          |
|                             | Concentration: 20 g/l  |
| Viscosity, dynamic          | : No data available    |
| Viscosity, kinematic        | : No data available    |
| Flow time                   | : No data available    |
| Solubility(ies)             |                        |

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|                                      |                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------|
| Water solubility                     | : 79 g/l (0 °C)<br>191 g/l (100 °C)                                                   |
| Partition coefficient: octanol/water | : log Pow: 0,85<br>Method: (calculated)<br>(Lit.)<br>Bioaccumulation is not expected. |
| Vapor pressure                       | : No data available                                                                   |
| Relative density                     | : No data available                                                                   |
| Density                              | : 1,920 g/cm <sup>3</sup> (25 °C)                                                     |
| Bulk density                         | : ca. 1.250 kg/m <sup>3</sup>                                                         |
| Relative vapour density              | : No data available                                                                   |
| 9.2 Other information                |                                                                                       |
| Explosives                           | : Not classified as explosive.                                                        |
| Oxidizing properties                 | : none                                                                                |
| Burning rate                         | : No data available                                                                   |
| Evaporation rate                     | : No data available                                                                   |
| Molecular weight                     | : 237,90 g/mol                                                                        |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of explosion with:

Alkali metals

### 10.4 Conditions to avoid

Conditions to avoid : no information available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Components:

Cobalt dichloride hexahydrate:

M-Factor (Acute aquatic toxicity) 10

Toxicity to fish (Chronic toxicity)

NOEC: 0,21 mg/l

End point: mortality

Species: Pimephales promelas (fathead minnow)

Test Type: flow-through test

Analytical monitoring: yes

GLP: yes

Remarks: (ECHA)

The value is given in analogy to the following substances:

The value is given in analogy to the following substances: Cobalt(II) chloride

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Toxicity to daphnia and  
other aquatic  
invertebrates (Chronic  
toxicity)

NOEC: 0,17 mg/l

End point: Growth inhibition

Exposure time: 14 d

Test Type: semi-static test

Analytical monitoring: yes

GLP: yes

Remarks: (ECHA)

The value is given in analogy to the following  
substances:

The value is given in analogy to the following

substances: Cobalt(II) chloride

M-Factor (Chronic aquatic  
toxicity) : 10

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

Cobalt dichloride hexahydrate:

Partition coefficient:  $n$ - : log Pow: 0,85

octanol/water Method: (calculated)

Remarks: (Lit.)

Bioaccumulation is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components

considered to be either persistent, bioaccumulative

and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components  
considered to have endocrine disrupting properties  
according to REACH Article 57(f) or Commission  
Delegated regulation (EU) 2017/2100 or Commission  
Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data available

12.7 Other adverse effects

Components:

Cobalt dichloride hexahydrate:

Additional ecological

information

Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance  
with the national and local regulations. Leave  
chemicals in original containers. No mixing with other  
waste. Handle uncleaned containers like the product  
itself.

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## SECTION 14: Transport information

|                                          |                                                                                                                                                                                                                                                                            |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.1 UN number or ID number              |                                                                                                                                                                                                                                                                            |
| ADR                                      | : UN 3077                                                                                                                                                                                                                                                                  |
| IMDG                                     | : UN 3077                                                                                                                                                                                                                                                                  |
| IATA                                     | : UN 3077                                                                                                                                                                                                                                                                  |
| 14.2 UN proper shipping name             |                                                                                                                                                                                                                                                                            |
| ADR                                      | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(cobalt dichloride)                                                                                                                                                                                                |
| IMDG                                     | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(cobalt dichloride)                                                                                                                                                                                                |
| IATA                                     | : Environmentally hazardous substance, solid, n.o.s.<br>(cobalt dichloride)                                                                                                                                                                                                |
| 14.3 Transport hazard class(es)          |                                                                                                                                                                                                                                                                            |
| ADR                                      | Class<br>: 9                                                                                                                                                                                                                                                               |
| IMDG                                     | : 9                                                                                                                                                                                                                                                                        |
| IATA                                     | : 9                                                                                                                                                                                                                                                                        |
| 14.4 Packing group                       |                                                                                                                                                                                                                                                                            |
| ADR                                      |                                                                                                                                                                                                                                                                            |
| Packing group                            | : III                                                                                                                                                                                                                                                                      |
| Classification Code                      | : M7                                                                                                                                                                                                                                                                       |
| Hazard Identification Number             | : 90                                                                                                                                                                                                                                                                       |
| Labels                                   | : 9                                                                                                                                                                                                                                                                        |
| Tunnel restriction code                  | : (-)                                                                                                                                                                                                                                                                      |
| IMDG                                     |                                                                                                                                                                                                                                                                            |
| Packing group                            | : III                                                                                                                                                                                                                                                                      |
| Labels                                   | : 9                                                                                                                                                                                                                                                                        |
| EmS Code                                 | : F-A, S-F                                                                                                                                                                                                                                                                 |
| IATA (Cargo)                             |                                                                                                                                                                                                                                                                            |
| Packing instruction (cargo aircraft)     | : 956                                                                                                                                                                                                                                                                      |
| Packing instruction (LQ)                 | : Y956                                                                                                                                                                                                                                                                     |
| Packing group                            | : III                                                                                                                                                                                                                                                                      |
| Labels                                   | : Class 9 - Miscellaneous dangerous substances and articles                                                                                                                                                                                                                |
| IATA_P (Passenger)                       |                                                                                                                                                                                                                                                                            |
| Packing instruction (passenger aircraft) | : 956                                                                                                                                                                                                                                                                      |
| Packing instruction (LQ)                 | : Y956                                                                                                                                                                                                                                                                     |
| Packing group                            | : III                                                                                                                                                                                                                                                                      |
| Labels                                   | : Class 9 - Miscellaneous dangerous substances and articles                                                                                                                                                                                                                |
| 14.5 Environmental hazards               |                                                                                                                                                                                                                                                                            |
| ADR                                      |                                                                                                                                                                                                                                                                            |
| Environmentally hazardous                | : yes                                                                                                                                                                                                                                                                      |
| IMDG                                     |                                                                                                                                                                                                                                                                            |
| Marine pollutant                         | : yes                                                                                                                                                                                                                                                                      |
| 14.6 Special precautions for user        |                                                                                                                                                                                                                                                                            |
| Remarks                                  | : EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids. Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9 |

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package

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sizes, and variations in regional or country regulations.  
14.7 Maritime transport in bulk according to IMO instruments  
Not applicable for product as supplied.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

Banned and/or restricted

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Cobalt dichloride hexahydrate  
Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1 ENVIRONMENTAL HAZARDS

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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