### COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS MSDS



## CAS-No.: 7791-13-1 MSDS

### **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the substance/mixture and of the company/undertaking

: Substance	
:	
: 7791-13-1	
: 02893	
CoCl <sub>2</sub>	• 6H <sub>2</sub> O
	: : 7791-13-1 : 02893

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

### 1.2.2. Uses advised against

No additional information available

1.3.	Details of the supplier of the safety data sheet	
1st Flo Ludhia +91 93	gens Fine Chem Industries loor , Above Bank of India, Guru Vihar , Rahon Road, iana Pb. (141007) 0316777775, +91 7707855700 0 <u>@labogens.com</u> - <u>www.Labogens.com</u>	
1.4.	Emergency telephone number	

#### Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302 Category 4 Respiratory sensitisation, H334 Category 1 Skin sensitisation, H317 Category 1 Germ cell mutagenicity, H341 Category 2 Carcinogenicity H350i (inhalation) Category 1A Reproductive toxicity, H360F Category 1A Hazardous to the aquatic H410 environment - Chronic Hazard, Category 1

Full text of H statements : see section 16

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### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.1; R49 Xn; R22 R42 R43 N; R50/53 Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

0.0 Label demonts	
2.2. Label elements	
Labelling according to Regulation (EC)	) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H302 - Harmful if swallowed.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H341 - Suspected of causing genetic defects.</li> <li>H350i - May cause cancer by inhalation.</li> <li>H360F - May damage fertility.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P261 - Avoid breathing vapours, spray, dust, fume, gas.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation</li> </ul>

### 2.3. Other hazards

#### No additional information available

SECTIO	SECTION 3: Composition/information on ingredients		
3.1.	Substances		
Name		: COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS	
CAS-N	0.	: 7791-13-1	

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### 3.2. Mixtures

Not applicable

SECTIO	N 4: First aid measures	
4.1.	Description of first aid measures	
		If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor.
First-aid	measures after skin contact	: Wash with plenty of water/ Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid	measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.</li> </ul>
First-aid	measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.
4.2.	Most important symptoms and effective	fects, both acute and delayed
Symptor	ns/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Symptor	ns/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3.	Indication of any immediate med	ical attention and special treatment needed
Treat sy	mptomatically.	
SECTIO	N 5: Firefighting measures	
5.1.	Extinguishing media	
		: Carbon dioxide. Dry powder. Foam. Water spray.
		: Do not use a heavy water stream.
5.2.	Special hazards arising from the	substance or mixture
No addit	tional information available	
5.3.	Advice for firefighters	
Protectio	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTIO	N 6: Accidental release measures	
6.1.	Personal precautions protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
∟merge	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	ve equipment	: Use personal protective equipment as required.
Emerge	ncy procedures	: Ventilate area.
6.2.	Environmental precautions	
Avoid re	lease to the environment.	
6.3.	Methods and material for contain	ment and cleaning up
Methods	s for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

### 6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handlin	g
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	onal protection
8.1. Control parameters	
No additional information available	

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
<b>SECTION 9: Physical and chemical</b>	properties

9.1. Information on basic physical a	nd chemical properties
Physical state	: Solid
Molecular mass	: 237.93 g/mol
Colour	: Red crystals.
Odour	: odourless.
Odour threshold	: No data available
рН	: 4.6
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 86 °C
Freezing point	: No data available
Boiling point	: 110 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available

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Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density Solubility	: 1.92 g/cm³ : Water: 76.7 g/100cm³ @ 0°C	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2.       Other information         No additional information available         SECTION 10: Stability and reactivity         10.1.       Reactivity         No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
<b>10.3. Possibility of hazardous reaction</b> No additional information available	ons	
10.4. Conditions to avoid		
Air contact. Direct sunlight. Moisture.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
No additional information available		
SECTION 11: Toxicological information		

Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Not classified pH: 4.6
Serious eye damage/irritation	: Not classified pH: 4.6
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer by inhalation.

Reproductive toxicity STOT-single exposure	: May damage fertility. : Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed.
SECTION 12: Ecological information	

12.1.	Toxicity	
Ecology	y - water	: Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability	
COBALT (II) CHLORIDE HEXAHYDRATE	E AR/ACS (7791-13-1)
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	ment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA	
14.1. UN number	
UN-No. (ADR)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (IATA)	: 3077
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# **COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS**

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UN-No. (RID)	: 3077
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (-)
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III
Transport document description (ADN)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
Transport document description (RID)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
14.3 Transport hazard class(es)	

### 14.3. Transport hazard class(es) ADR

Transport hazard class(es) (ADR)	
Danger labels (ADR)	



Transport hazard class(es) (IMDG) Danger labels (IMDG)



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Transport hazard class(es) (IATA) Hazard labels (IATA)





### ADN

Transport hazard class(es) (ADN) Danger labels (ADN)





Transport hazard class(es) (RID) Danger labels (RID)	: 9 : 9
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: III
Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111

14.5.	Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

### 14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP12, B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2, BK3
Portable tank and bulk container speci- provisions (ADR)	al : TP33
Tank code (ADR)	: SGAV, LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packa (ADR)	iges : V13
Special provisions for carriage - Bulk (ADR)	: VC1, VC2
Special provisions for carriage - Loadir unloading and handling (ADR)	ng, : CV13
Hazard identification number (Kemler I	No.) : 90
Orange plates	90 3077
	5077
Tunnel restriction code (ADR)	: -
EAC code	: 2Z
- Transport by sea	
Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
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Packing instructions (IMDG)	: LP02, P002
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
MFAG-No	: 171
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity	: 30kgG
(IATA)	
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG code (IATA)	: 9L
- Inland waterway transport	
Classification code (ADN)	: M7
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T* B**
Equipment required (ADN)	: PP, A
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. ** * Only in the case of transport in bulk.
- Rail transport	
Classification code (RID)	: M7
Special provisions (RID)	: 274, 335, 375, 601
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: PP12, B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV, LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W13
Special provisions for carriage – Bulk (RID)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 90
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## **COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS**

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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14.7.

Not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions	
COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS is not on the REACH Candidate List	
COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS is not on the REACH Annex XIV List	
15.1.2. National regulations	
Germany	
12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV	
Netherlands	
SZW-lijst van kankerverwekkende stoffen : The substance is not listed	
SZW-lijst van mutagene stoffen : The substance is not listed	
NIET-limitatieve lijst van voor de : The substance is not listed voortplanting giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de : The substance is not listed	
voortplanting giftige stoffen –	
Vruchtbaarheid	
NIET-limitatieve lijst van voor de : The substance is not listed voortplanting giftige stoffen – Ontwikkeling	
Denmark	
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the p	
Pregnant/breastfeeding women working with the product must not be contact with the product	in direct
The requirements from the Danish Working Environment Authorities	regarding work
with carcinogens must be followed during use and disposal	

**15.2.** Chemical safety assessment No additional information available

SECTION 16: Other information

# **COBALT (II) CHLORIDE HEXAHYDRATE AR/ACS**

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Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1A	Carcinogenicity (inhalation) Category 1A
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1A	Reproductive toxicity, Category 1A
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed.
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.
H360F	May damage fertility.
H410	Very toxic to aquatic life with long lasting effects.
R22	Harmful if swallowed
R42	May cause sensitization by inhalation
R43	May cause sensitisation by skin contact
R49	May cause cancer by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Ν	Dangerous for the environment
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product