

#### CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

# MATERIAL SAFETY DATA SHEET (MSDS)

# **COBALT METAL POWDER**

#### 1. Identification of the substance/mixture and of the company/undertaking

<u>1.1. Product identifier</u>	
Trade name	: COBALT METAL POWDER
Dreduct and	. 00072100100
Product code	: C0072100100
Identification of the product	: Cobalt
	CAS No :7440-48-4
	EC No :231-158-0
	Annex No :027-001-00-9
1.2 Relevant identified uses of the s	substance or mixture and uses advised against
1.2. Nelevant identified uses of the s	abstance of mixture and uses advised against
Use	: Industrial. For professional use only.
1.3. Details of the supplier of the saf	<u>ety data sheet</u>
	SUVCHEM
Company identification	
Company identification	Chaitanya Tower, 2nd Floor, Office # 206,
	Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road,
	Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062,
	Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India.
	Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95
	Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India.
1.4. Emergency telephone number	Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95
1.4. Emergency telephone number	Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95 Email ID: info@suvchem.com/care@suvchem.com
	Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95

#### 2. Hazards identification -DSD

#### 2.1. Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45

Classification

: Xn ; R42/43

R53

#### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards	: Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334 Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Environmental hazards	: Hazardous to the aquatic environment - Chronic hazard - Category 4 (CLP : Aquatic Chronic 4) H413

#### 2.2. Label elements



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# 2. Hazards identification -DSD (continued)

#### Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s)	: Xn : Harmful
R Phrase(s)	: R42/43 : May cause sensitization by inhalation and skin contact. R53 : May cause long-term adverse effects in the aquatic environment.
S Phrase(s)	<ul> <li>S2 : Keep out of the reach of children.</li> <li>S22 : Do not breathe dust.</li> <li>S24 : Avoid contact with skin.</li> <li>S37 : Wear suitable gloves.</li> <li>S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.</li> </ul>
Contains	: Cobalt
Labelling Regulation EC 1272/2008 (C	EP)
Hazard pictograms	
Signal words	: Danger
Hazard statements	<ul> <li>H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H317 : May cause an allergic skin reaction.</li> <li>H413 : May cause long lasting harmful effects to aquatic life.</li> </ul>
Precautionary statements	
• General	: P102: Keep out of reach of children. P103: Read label before use. P101: If medical advice is needed, have product container or label at hand.
Prevention	<ul> <li>P285: In case of inadequate ventilation wear respiratory protection.</li> <li>P280: Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P261: Avoid breathing dust, fume, gas, mist, vapours, spray.</li> <li>P273: Avoid release to the environment.</li> <li>P272: Contaminated work clothing should not be allowed out of the workplace.</li> </ul>
• Response	<ul> <li>P302+P352: IF ON SKIN : Wash with plenty of soap and water.</li> <li>P304+P341: IF INHALED : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P333+P313: If skin irritation or rash occurs : Get medical advice.</li> <li>P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER or doctor.</li> <li>P363: Wash contaminated clothing before reuse.</li> </ul>
<ul> <li>Disposal considerations</li> </ul>	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.



# MATERIAL SAFETY DATA SHEET (MSDS)

# **COBALT METAL POWDER**

2. Hazards identification -DS	D (continued	)				
Contains	: Col	palt				
2.3. Other hazards						
Other hazards				il the criteria to nex XIII of Reg		as PBT substance or vPvB 1.
3. Composition/information of	on ingredient	S				
Substance / Preparation	EC An	oalt S No :7440-4 No :231-158 nex No :027-0 bstance.	-0			
Substance name Cobalt	Contents 100 %	<b>CAS No</b> 7440-48-4	<b>EC No</b> 231-158-0	Annex No 027-001-00-9	REACH Ref.	Classification R42/43 R53
						Resp. Sens. 1 _ H334 Skin Sens. 1 _ H317 Aquatic Chronic 4 _ H413

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures		
4.1. Description of first aid measures		
Inhalation	: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms :	
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Specific treatment (see on this label). If skin irritation or rash occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice.	
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.	
Ingestion	: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.	
4.2. Most important symptoms and eff	fects, both acute and delayed	
Symptoms relating to use	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
4.3. Indication of any immediate medical attention and special treatment needed		
General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	



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# 5. Fire-fighting measures

5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.
5.2. Special hazards arising from the	e substance or mixture
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.
5.3. Advice for fire-fighters	
Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release n	neasures
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6.1. Personal precautions, protective	e equipment and emergency procedures
For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.
For non-emergency personnel	: Evacuate unnecessary personnel.
6.2. Environmental precautions	
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for contai	inment and cleaning up
Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	

See section 8. Exposure controls/personal protection

# 7. Handling and storage

#### 7.1. Precautions for safe handling



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7. Handling and storage (continue	ed)
Handling	Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Avoid breathing dust, fume, gas, mist, vapours, spray. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
Specific end use(s)	: None.

# 8. Exposure controls/personal protection 8.1. Exposure controls Personal protection : Avoid all unnecessary exposure. • Respiratory protection : In case of inadequate ventilation wear respiratory protection. • Hand protection : Wear protective gloves.

- Eye protection : Chemical goggles or safety glasses.
- Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

#### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: Dark grey fine powder
Odour	: N/A
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: 1493°C
Decomposition point [°C]	: N/A



# MATERIAL SAFETY DATA SHEET (MSDS)

# **COBALT METAL POWDER**

#### 9. Physical and chemical properties (continued)

Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 3100°C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm3]	: 8,92
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Insoluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

#### 10. Stability and reactivity

10.1. Reactivity		
Reactivity	: Not established.	
10.2. Chemical stability		
Chemical stability	: Stable under recommended storage conditions.	
10.3. Possibility of hazardous reactions		
Hazardous reactions	: Not established.	
10.4. Conditions to avoid		



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10. Stability and reactivity (continued)		
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.	
10.5. Incompatible materials		
Materials to avoid	: Strong acids. Strong bases.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.	
11. Toxicological information		
<u>11.1. Information on toxicological effects</u> Acute toxicity		
Inhalation	: Based on available data, the classification criteria are not met.	
• Dermal	: Based on available data, the classification criteria are not met.	
Ingestion	: Based on available data, the classification criteria are not met.	
Corrosion	: Based on available data, the classification criteria are not met.	
Irritation	: Based on available data, the classification criteria are not met.	
Sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
Mutagenicity	: Based on available data, the classification criteria are not met.	
Carcinogenicity	: Based on available data, the classification criteria are not met.	
Toxic for reproduction	: Based on available data, the classification criteria are not met.	
STOT-single exposure	: Based on available data, the classification criteria are not met.	
STOT-repeated exposure	: Based on available data, the classification criteria are not met.	

: Based on available data, the classification criteria are not met.

#### 12. Ecological information

Aspiration hazard

<u>12.1. Toxicity</u>	
Toxicity information	: May cause long lasting harmful effects to aquatic life.
<u> 12.2. Persistence - degradability</u>	
Persistence - degradability	: May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	



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12. Ecological information (continued)		
Bioaccumulative potential	: Not established.	
<u>12.4. Mobility in soil</u>		
Mobility in soil	: Not established.	
12.5. Results of PBT and vPvB assessment		
Results of PBT and vPvB assessment	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.	
12.6. Other adverse effects		
Environmental precautions	: Avoid release to the environment.	
13. Disposal considerations		
13.1. Waste treatment methods		
General	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
14. Transport information		
14.1. Land transport (ADR-RID)		
Proper shipping name UN N° H.I. nr ADR - Class Labelling - Transport	<ul> <li>METAL POWDER, FLAMMABLE, N.O.S.</li> <li>3089</li> <li>40</li> <li>4.1</li> <li>4.1 : Flammable solids, self-reactive substances and desensitized explosives.</li> </ul>	
ADR - Classification code ADR - Group ADR - Packing instructions ADR - Limited Quantity	: F3 : II : P002 : 1 KG	



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#### 14. Transport information (continued)

ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

# 14.2. Sea transport (IMDG) [English only] Proper shipping name : METAL POWDER, FLAMMABLE, N.O.S.

	- , ,
UN N°	: 3089
IMO-IMDG - Class or division	: 4.1 : Flammable solids, self-reactive substances and desensitized explosives.
IMO-IMDG - Packing group	: 11
IMO- IMDG - Packing instructions	: P002
IMO-IMDG - Limited quantities	: 1 kg
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-G S-G

#### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name UN N°	: METAL POWDER, FLAMMABLE, N.O.S. : 3089
IATA - Class or division	: 4.1 : Flammable solids, self-reactive substances and desensitized explosives.
IATA - Packing group	: II
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 445
- Passenger and Cargo - Maximum Quantity/Packing	: 15 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 448
- Cargo only - Maximum Quantity/ Packing	: 50 kg
IATA - Limited Quantites	: 5 kg
ERG-Nr	: 3L

#### 15. Regulatory information

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

Safety, health and environmental : Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture



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# **COBALT METAL POWDER**

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

# DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its
  comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of
  the material by a properly trained person using this product.

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