

## **MATERIAL SAFETY DATA SHEET**

### **COBALT AAS STANDARD SOLUTION**

**(1000 mg/L Co in diluted HNO<sub>3</sub>)**

**MSDS CAS:**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name:** COBALT AAS STANDARD SOLUTION 1000mg/l Co In Diluted HNO<sub>3</sub>

**CAS#:**

**Chemical Name:** COBALT AAS STANDARD SOLUTION 1000mg/l Co In Diluted HNO<sub>3</sub>

**Chemical Formula:**

**Brand : OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet :**

##### **Company identification:**

**OXFORD LAB FINE CHEM LLP**

**Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

| Name        | CAS #     | % by Weight  |
|-------------|-----------|--------------|
| Cobalt      | 7440-48-4 | > 0.01 < 1 % |
| Nitric acid | 7697-37-2 | > 1 < 5 %    |
| Water       | 7732-18-5 | > 75 < 99 %  |

**Toxicological Data on Ingredients:** Not available.

## Section 3: Hazards Identification

**Classification of the substance or mixture**

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

**Classification** : Xi; R36/38

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

**Health hazards** : Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

### Description of first aid measures:

**Inhalation:** Assure fresh air breathing. Allow the victim to rest.

**Skin contact:** If skin irritation occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice. Specific treatment (see on this label).

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

**Ingestion:** Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

### Most important symptoms and effects, both acute and delayed:

**Symptoms relating to use:** Causes serious eye irritation.

Causes skin irritation.

### 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).

## Section 5: Fire and Explosion Data

### Extinguishing media:

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | <b>: Foam. Dry powder. Carbon dioxide. Water spray. Sand.</b>   |
| <b>Unsuitable extinguishing media</b> | <b>: Do not use a heavy water stream.</b>                       |
| <b>Surrounding fires</b>              | <b>: Use water spray or fog for cooling exposed containers.</b> |

### Special hazards arising from the substance or mixture:

**Hazardous combustion products:** Under fire conditions, hazardous fumes will be present.

### 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.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures:

**For emergency responders** :Equip cleanup crew with proper protection.  
:Ventilate area.

**For non-emergency personnel** :Evacuate unnecessary personnel.

### Environmental precautions

**Environmental precautions** :Prevent entry to sewers and public waters. Notify authorities if product  
enters sewers or public waters.

### Methods and material for containment 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.

## Section 7: Handling and Storage

### Precautions:

Wash thoroughly after handling. Wash thoroughly after handling. Provide good ventilation in process area to prevent formation of vapour.

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.

## Section 8: Exposure Controls/Personal Protection

### Exposure controls:

**Personal protection:** Avoid all unnecessary exposure.

- **Respiratory protection:** Wear approved mask.
- **Hand protection:** Wear protective gloves.
- **Skin protection:** Wear suitable protective clothing.
- **Eye protection:** Chemical goggles or safety glasses.
- **Others:** When using, do not eat, drink or smoke.

### Control parameters:

**Occupational Exposure Limits:** No data available.

## Section 9: Physical and Chemical Properties

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Physical state and appearance</b> | : Liquid.         |
| <b>Odor</b>                          | : Characteristic. |
| <b>Taste</b>                         | : Not available.  |
| <b>Molecular Weight</b>              | : Not available.  |
| <b>Color</b>                         | : light pink.     |
| <b>pH (1% soln/water)</b>            | : Not available.  |
| <b>Boiling Point</b>                 | : Not available.  |
| <b>Melting Point</b>                 | : Not available.  |
| <b>Critical Temperature</b>          | : Not available.  |
| <b>Specific Gravity</b>              | : Not available.  |
| <b>Vapor Pressure</b>                | : Not applicable. |
| <b>Vapor Density</b>                 | : Not available.  |
| <b>Volatility</b>                    | : Not available.  |

## Section 9: Physical and Chemical Properties (Continued)

|                        |                  |
|------------------------|------------------|
| Odor Threshold         | : Not available. |
| Water/Oil Dist. Coeff. | : Not available. |
| Ionicity (in Water)    | : Not available. |
| Dispersion Properties  | : Not available. |
| Solubility             | : Not available. |

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions to avoid:** Direct sunlight. Extremely high or low temperatures.

**Incompatibility with various substances:** Not available.

**Materials to avoid:** Strong acids. Strong bases.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Hazardous decomposition products:** Fumes. Carbon monoxide. Carbon dioxide.

**Polymerization:** No.

## Section 11: Toxicological Information

**Information on toxicological effects:**

**Toxicity information:** The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

**Acute toxicity:**

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

## Section 11: Toxicological Information (Continued)

- **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:** Causes serious eye irritation.  
Causes skin irritation..
- Sensitization:** Based on available data, the classification criteria are not met.
- 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.

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

## Section 12: Ecological Information

**Toxicity information:** The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

**BOD5 and COD:** Not available.

**Persistence - degradability:** Biodegradable.

**Bioaccumulative potential:** Not established.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

**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.

**Environmental precautions:** Avoid release to the environment.

## Section 13: Disposal Considerations

**Waste Disposal:** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

## Section 14: Transport Information

### Land transport (ADR-RID)

**Proper shipping name :** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

**UN N° :** 3264

**ADR - Class :** 8

**Labelling – Transport :** 8 : Corrosive substance.

### Sea transport (IMDG) [English only]

**Proper shipping name :** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

**UN N° :** 3264

**IMO-IMDG - Class or division :** 8 : Corrosive substance.

**IMO-IMDG - Packing group :** III

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

**Proper shipping name :** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

**UN N° :** 3264

**IATA - Class or division :** 8 : Corrosive substance.

**IATA - Packing group :** III

## Section 15: Other Regulatory Information

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

**Safety, health and environmental regulations/legislation specific for** : Ensure all national/local regulations are observed.



# OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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## Section 15: Other Regulatory Information (Continued)

the substance or mixture.

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.  
**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

**Chemical Safety Assessment:**

**Chemical Safety Assessment** : It has not been carried out.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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