



## MATERIAL SAFETY DATA SHEET

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### Section 1- Chemical Product Information and Company Identification.

**Product Name:** : Brownish-Yellow, BY7 reference solution complies with EP.  
**Synonym:** : NA.  
**Product code:** : BS11636.  
**CAS Number:** : NA.  
**Company Name:** : Briti Scientific.  
**Company Address:** : Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055.  
Telangana, India.

### Section 2- Hazards Identification.

#### **Classification of the substance or mixture**

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.  
H411 Toxic to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction

#### **Label Elements**

**Signal Word:** Danger



#### **• Hazard statements**

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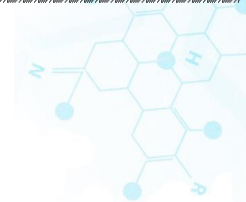
#### **• Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.



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P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.

### Section 3- Composition / Information on Ingredients.

#### **Proprietary:**

No components need to be disclosed according to the applicable regulations.

### Section 4- First Aid Measures.

**General Advice:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

**Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

**Ingestion:** Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Most important symptoms and effects:** Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

**Notes to Physician:** Treat symptomatically.

### Section 5- Fire Fighting Measures.

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

**Unsuitable Extinguishing Media:** For this substance/mixture no limitations of extinguishing agents are given.

**Flash Point:** No information available.

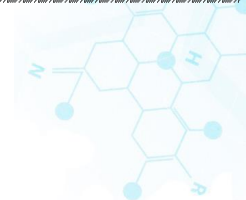
**Method -** No information available.

**Autoignition Temperature:** No information available.



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### Explosion Limits

Upper No data available  
Lower No data available

**Sensitivity to Mechanical Impact:** No information available.

**Sensitivity to Static Discharge:** No information available.

### Specific Hazards Arising from the Chemical

No information available.

**Hazardous Combustion Products:** No information available.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6- Accidental Release Measures.

**Personal Precautions:** Not required.

**Environmental Precautions:** Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

### Methods for Containment and Clean Up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## Section 7- Handling and Storage.

**Handling:** No special precautions are necessary if used correctly.

### Hygiene

Measures Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

**Storage:** No special requirements

## Section 8- Exposure Control/Personal Protection.

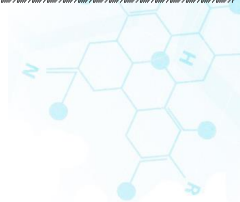
**Exposure Guidelines:** No information available.

**Engineering Measures:** Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

### Personal Protective Equipment

**Eye/face Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.





**Skin and body protection:** Long sleeved clothing.

**Respiratory Protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

**Hygiene Measures:**

Handle in accordance with good industrial hygiene and safety practice

### Section 9- Physical and Chemical Properties.

<b>Appearance:</b>	Light Brownish-Yellow colour liquid.
<b>Odor:</b>	Odourless.
<b>Odor Threshold:</b>	No information available.
<b>pH:</b>	No information available.
<b>Melting Point/Range:</b>	No information available.
<b>Boiling Point/Range:</b>	No information available.
<b>Flash Point:</b>	No information available.
<b>Evaporation Rate:</b>	No information available.
<b>Flammability (solid,gas):</b>	Not applicable.

#### **Flammability or explosive limits:**

Upper	No information available.
Lower	No information available.
<b>Vapor Pressure:</b>	No information available.
<b>Density:</b>	No information available.
<b>Solubility:</b>	No information available.
<b>Partition coefficient; n-octanol/water:</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Molecular formula:</b>	No information available.
<b>Molecular Weight:</b>	No information available.

### Section 10- Stability and Reactivity.

**Reactive Hazard:** No further relevant information available.

**Stability:** Stable under normal conditions.

**Conditions to Avoid:** No further relevant information available.

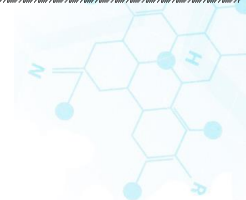
**Incompatible Materials:** No further relevant information available.

**Hazardous Decomposition Products:** No dangerous decomposition products known.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Hazardous Reactions:** No dangerous reactions known.





## Section 11- Toxicological Information.

### **Acute Toxicity:**

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 3,830 mg/kg

7646-79-9 cobalt dichloride

Oral LD50 80 mg/kg (rat)

### **Skin Corrosion and Irritation:**

Causes severe skin burns and eye damage. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

### **Serious Eye Damage and Irritation:**

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

### **Respiratory Sensitization:**

Not applicable.

### **Skin Sensitization:**

Not applicable.

### **Germ Cell Mutagenicity:**

Suspected of causing genetic defects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

### **Carcinogenicity:**

Not applicable.

### **Reproductive Toxicity:**

Not applicable.

### **Specific Target Organ Toxicity from Single Exposure:**

Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.



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## Section 12- Ecological Information.

### • **Toxicity**

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.

### • **Behaviour in environmental systems:**

- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

### • **Ecotoxicological effects:**

- Remark: Toxic for fish

### • **Additional ecological information:**

#### • **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

## Section 13- Disposal Considerations.

### • **Waste treatment methods**

- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

### • **Uncleaned packaging:**

- Recommendation: Disposal must be made according to official regulations.

## Section 14- Transport Information.

- UN-Number
- ADR, IMDG, IATA Void
- UN proper shipping name
- ADR, IMDG, IATA Void
- Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class Void
- Packing group
- ADR, IMDG, IATA Void
- Environmental hazards:



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- Marine pollutant: Yes
- Special precautions for user Not applicable.
- Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
- UN "Model Regulation": Void

## Section 15- Regulatory Information.

### **Legend:**

TSCA - Toxic Substances Control Act, (40 CFR Part 710).

X - Listed

'-' - Not Listed

**TSCA 12(b)** - Notices of Export: Not applicable.

### **U.S. Federal Regulations**

SARA 313: Not applicable.

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act): Not applicable.

**Clean Air Act:** Not applicable.

**OSHA** - Occupational Safety and

Health Administration: Not applicable.

**CERCLA:** Not applicable.

## Section 16- Other Information.

Briti Scientific 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. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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