

## **Syntron Industries Pvt.Ltd.**

### **Material Safety Data Sheet**

Version No.- 01

Revision Date: 01 July 2022

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

##### **1.1 Product identifier**

Trade Name: **CALTRON BBSI(BIS-BENZENE SULFONIMIDE)**  
Product Code: **CLT - 1002**  
Synonyms: Bis (phenyl sulfonyl) amine; Bis (benzene sulphonyl) imide.

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

###### **Uses of the substance**

»CALTRON BBSI is auxiliary brightener for electroplating nickel. CALTRON BBSI is used to prepare nickel plating softener to increase the flexibility of the plating layer. The primary brightener can improve the ductility of the coating, and has the effect of anti-impurity and whitening. It has the general properties of CALTRON BBSI and is soluble in alkaline solution. In electroplating, it is used as a substitute for the primary brightener - saccharin, which has a good levelling effect and consumes less than saccharin.

»Restrictions on use: No information available

###### **Remarks**

»Risk assessments should be conducted prior to handling this product/material.

##### **1.3 Details of the supplier of the safety data sheet.**

###### **Company**

Syntron Industries Pvt. Ltd.  
411/5, Phase II , G.I.D.C. Vatva,  
Ahemdabad – 382445 GUJARAT. INDIA  
Tel. : + 91 79258 33039

###### **E-mail address**

Surfactants@syntronindustries.com

##### **1.4 Emergency telephone number**

India Tel. No. : + 91 79258 33039

###### **Disclaimer**

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

##### **2.1 Classification of the substance.**

###### **GHS Classification**

Skin irritation, Category 2  
Eye irritation, Category 2  
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3).

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word                      Warning

### Hazard statement(s)

H315                      Causes skin irritation  
H319                      Causes serious eye irritation  
H335                      May cause respiratory irritation

### Precautionary statement(s).

P261                      Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264                      Wash thoroughly after handling.  
P271                      Use only outdoors or in a well-ventilated area.  
P280                      Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352              If on skin: Wash with soap and water.  
P304+P340+P312      If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338      If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do– continue rinsing.  
P332+P313              If skin irritation occurs: Get medical advice/attention.  
P337+P313              If eye irritation persists: get medical advice/attention.  
P362                      Take off contaminated clothing and wash before reuse.  
P403+P233              Store in a well-ventilated place.Keep container tightly closed.  
P405                      Store locked up.  
P501                      Dispose of contents/container to an approved waste disposal plant

**Other Hazardous**              None

## SECTION 3: Composition /information on ingredients

Chemical Name	CAS No.	Concentration on (%)
BIS-BENZENE SULFONIMIDE	2618-96-4	98%

## SECTION 4: First aid measure

### 4.1 Description of first measures

If inhaled:                              Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention if you feel unwell.

In case of skin contact: Take off all contaminated clothing immediately. If on skin, rinse well with water. If skin irritation or rash occurs: Get medical advice/ attention.

In case of eye contact: Rinse with plenty of water. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.

If swallowed: Get medical advice/ attention. Rinse mouth.

#### 4.2 Most important symptoms /effects, acute and delayed

No data available

#### 4.3 Indication of immediate medical attention and special treatment needed

No data available

### SECTION 5: Firefighting measure

#### 5.1 Extinguishing media

Suitable extinguishing media: Dry powder, Foam, Water spray, Carbon dioxide (CO<sub>2</sub>)

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

Specific hazards during firefighting No information available.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters Use personal protective equipment.

Specific extinguishing methods Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

#### 5.4 Further information

No data available

### SECTION 6: Accidental release measure

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

Personal precautions Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### 6.2 Environmental precautions

Environmental precautions Prevent product from entering drains.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up Pick up and arrange disposal without creating dust.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling:

Handling is performed in a well-ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.

### 7.3 Packaging material:

Comply with laws.

### 7.4 Specific end use(s)

Specific use(s) No information available.

## SECTION 8: Exposure controls / personal protection

**Appropriate engineering controls:** Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

### Personal protective equipment

**Respiratory protection:** Vapor respirator. Follow local and national regulations

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires.

**Skin and body protection:** Protective clothing. Protective boots, if the situation requires

## SECTION 9: Physical and chemical properties

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

Appearance	Crystal powder.
Colour	White to Yellow.
Odour	No data available.
Odour threshold	No data available.
pH	No data available
Melting point	150 to 160°C
Boiling point	175-181 °C.
Flash point	>240°C.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Specific gravity	1.418 ± 0.05
Solubility(ies)	Slightly soluble in water, well soluble in alkaline solution
Partition coefficient	No data available.
Auto-ignition temperature	No data available.
Decomposition Temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidising properties	No data available.

### 9.2. Other information

Molecular weight:297.35

## SECTION 10: Stability and reactivity

10.1 <b>Reactive Hazard</b>	None known, based on information available
10.2 <b>Stability</b>	Stable under normal conditions.
10.3 <b>Conditions to Avoid</b>	Incompatible products.
10.4 <b>Incompatible Materials</b>	Strong oxidizing agents, Strong bases
10.5 <b>Hazardous Decomposition Products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Oxides of phosphorus, Phosphorustrihydride (phosphine)
10.6 <b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
10.7 <b>Hazardous Reactions</b>	None under normal processing.

## SECTION 11: Toxicological information

### Acute Toxicity

#### Product Information Component

CALTRON BBSI (BIS-BENZENE SULFONIMIDE)

LD50 Oral - Rat –Not available

LC50 Inhalation –Not available

**Toxicologically Synergistic Products** No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** Irritating to eyes, respiratory system and skin

**Sensitization** No information available

**Carcinogenicity** No data available.

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** No data available

**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects,both acute and delayed** No information available

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## SECTION 12: Ecological information

### Ecotoxicity

**Fish:** No data available.

**Crustacea:** No data available.

**Algae:** No data available.

## Component

### CALTRON BBSI(BIS-BENZENE SULFONIMIDE)

**Persistence and Degradability** Persistence is unlikely

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No data available.

#### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Endocrine disrupting properties** No data available

## 12.6. Other adverse effects

None known.

## SECTION 13: Disposal consideration

### 13.1 Waste Disposal methods

#### Product Disposal

##### Prohibition

Do not discharge directly into the environment.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

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

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Incompatible materials:

Acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates

**Further information:** Not classified as dangerous in the meaning of transport regulations.

## SECTION 15: Regulatory information

### National Regulations --

No additional information available

### Chemical safety assessment --

No additional information available

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service.

LD 50: Substance that causes 50% (half) death in the test animals' group (Median Fatal Dose).

LC 50: Substance concentration causing 50% (half) death in the test animals' group.

EC 50: Effective Concentration of the substance causing the maximum of 50%.

GHS: Globally Harmonized System of Classification and labelling of chemical

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative, and Toxic.

VPvB: Very Persistent and Very Bioaccumulative

### Packing: -

1. Crystal Powder: Available in 25 KgHDPE BAG

### MSDS PREPARED BY:

Syntron Industries Pvt.Ltd.

### REASON FOR REVISION:

Not applicable

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