

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 **Product identifiers** 

> Product name : Benzene Sulphonyl Chloride

CAS-No. : 98-09-9

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

> Company **Bio-Chem Chemicals**

5455, Nicholson Nicholson Road,

Science Market, Ambala Cantt. 133001Haryana (India)

+91-82952 41953

info@biofinechemical.com - www.biofinechemical.com

1.4 **Emergency telephone number** 

> +91 99921 51495 (10.00am - 06.30pm) (Office Hours) Emergency Phone #

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

### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Skin corrosion (Category 1B), H314

Respiratory sensitisation (Category 1), H334

Skin sensitisation (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

R20/22, R34, R42/43 Corrosive

For the full text of the R-phrases mentioned in this Section, see Section 16.

#### 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word

Hazard statement(s)

Harmful if swallowed. H302

H314 Causes severe skin burns and eye damage.

May cause an allergic skin reaction. H317

Harmful if inhaled. H332

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

Precautionary statement(s)

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

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

protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Supplemental Hazard

Statements

none

#### 2.3 Other hazards

Lachrymator.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 **Substances**

Formula C<sub>6</sub>H<sub>5</sub>C<sub>1</sub>O<sub>2</sub>S 176,62 g/mol Molecular Weight CAS-No. 98-09-9 EC-No. 202-636-6

## Hazardous ingredients according to Regulation (EC) No 1272/2008

Classification Concentration Component

Benzenesulphonyl chloride

CAS-No. 98-09-9 Acute Tox. 4; Skin Corr. 1B; <= 100 %

EC-No. 202-636-6 Resp. Sens. 1; Skin Sens. 1;

H302, H314, H317, H332,

H334

### Hazardous ingredients according to Directive 1999/45/EC

Component Classification Concentration

Benzenesulphonyl chloride

CAS-No. 98-09-9 C, R20/22 - R34 - R42/43 <= 100 %

EC-No. 202-636-6

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides, Hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

### **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Moisture sensitive.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Components with workplace control parameters

## 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## **Body Protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

### **SECTION 9: Physical and chemical properties**

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

information on basic physical and chemical properties		
a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	Melting point/range: 13 - 15 °C - lit
f)	Initial boiling point and boiling range	251 - 252 °C - lit.
a)	Flash point	132 °C - closed cup

Flash point h) Evapouration rate no data available Flammability (solid, gas) no data available Upper/lower no data available j) flammability or explosive limits

k) Vapour pressure 0.7 hPa at 55 °C 0,05 hPa at 20 °C Vapour density no data available m) Relative density 1,384 g/cm3 at 25 °C n) Water solubility no data available o) Partition coefficient: nno data available

octanol/water

p) Auto-ignition

no data available

temperature

q) Decomposition no data available

temperature

r) Viscosity no data available
 s) Explosive properties no data available
 t) Oxidizing properties no data available

## 9.2 Other safety information

no data available

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Avoid moisture.

### 10.5 Incompatible materials

Strong oxidizing agents, Strong bases

## 10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - rat - 1.960 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Respiratory disorder

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitisation

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

## Reproductive toxicity

no data available

## Specific target organ toxicity - single exposure

no data available

## Specific target organ toxicity - repeated exposure

no data available

### **Aspiration hazard**

no data available

### **Additional Information**

RTECS: DB8750000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxicity to fish LC50 - Salmo trutta - 3 mg/l - 48 h

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

no data available

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

## Contaminated packaging

Dispose of as unused product.

### **SECTION 14: Transport information**

## 14.1 UN number

ADR/RID: 2225 IMDG: 2225 IATA: 2225

### 14.2 UN proper shipping name

ADR/RID: BENZENESULPHONYL CHLORIDE IMDG: BENZENESULPHONYL CHLORIDE

IATA: Benzenesulphonyl chloride

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

## **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### **SECTION 16: Other information**

### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Resp. Sens. Respiratory sensitisation

Skin Corr. Skin corrosion
Skin Sens. Skin sensitisation

## Full text of R-phrases referred to under sections 2 and 3

C Corrosive

R20/22 Harmful by inhalation and if swallowed.

R34 Causes burns.

R42/43 May cause sensitisation by inhalation and skin contact.