



## Safety Data Sheet

### 1. Identification

Product Identifier : Sulfuric Acid

Recommended Uses : Acid

Supplier : Bow River Chemical Ltd.  
30 Fair Road, Unit 4  
Guelph, Ontario  
N1H 6K9

Emergency Telephone : (613) 996-6666 (CANUTEC)

### 2. Hazard Identification

|                           |                                   |            |
|---------------------------|-----------------------------------|------------|
| Product Classifications : | Corrosive to Metals               | Category 1 |
|                           | Skin Corrosion/Irritation         | Category 1 |
|                           | Serious Eye Damage/Eye Irritation | Category 1 |

Symbols :



Signal Word : Danger

Hazard Statements : May be corrosive to metals.  
Causes severe skin burns and eye damage.

Precautionary Statements : Wear protective gloves, protective clothing and eye protection/face protection. Do not breathe mists. Wash thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CONTROL CENTRE or doctor.

Store locked up. Keep only in original packaging. Absorb spillage to prevent material-damage. Dispose of contents/container according to local, provincial and federal regulations.

### 3. Composition/Information on Ingredients

Hazardous Ingredients :

| Chemical Name  | CAS Number | Concentration<br>(% w/w) |
|----------------|------------|--------------------------|
| Sulphuric acid | 7664-93-9  | 90 – 95                  |

### 4. First Aid Measures

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 CONTROL CENTRE or doctor.

IF ON SKIN (or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Immediately call a POISON CONTROL CENTRE or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CONTROL CENTRE or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CONTROL CENTRE or doctor.

Symptoms of Acute Exposure

|                |   |
|----------------|---|
| Eye contact :  | Burns, redness, watering, pain, loss of vision.   |
| Skin contact : | Severe burns, redness, itching, swelling, damage to underlying tissues.                                 |
| Ingestion :    | Burns, irritation and swelling to mouth, throat and stomach.  |
| Inhalation :   | Burns to nose, throat and respiratory tract. Coughing, difficulty breathing and/or shortness of breath. |

### 5. Fire Fighting Measures

Suitable Extinguishing Media :

Suitable materials include dry chemical, carbon dioxide, and alcohol-resistant foam.

Unsuitable Extinguishing Media :

Do not use water.

Specific Hazards and Combustion Products :

Non-combustible. Contact with soft metals forms flammable hydrogen gas. Contact with water releases heat. If in a fire or heated, container may experience a pressure rise and rupture. During fire, gases hazardous to health may be formed. Combustion products include oxides of sulphur.

Protective Equipment and Precautions  
for Firefighters :

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Move containers from fire area if possible without risk. Collect

contaminated fire extinguishing water and other media separately.

## 6. Accidental Release Measures

- Personal Precautions :** Immediately evacuate personnel to safe areas. Wear appropriate personal protective equipment (See Section 8: Exposure controls / Personal protection). Only trained and properly protected personnel must be involved in clean-up operations. Material may create slippery conditions.
- Containment and Clean Up :** Stop leak if it is safe to do so. Dike spilled material, where possible. Absorb with suitable inert dry material such as absorbent clay and place into closed containers for disposal. Do not use textiles, sawdust, or combustible substances. Avoid dispersal of spilled material or contact with soil or entry into waterways, sewers and drains. Dispose of contents/containers according to local, provincial, and federal regulations. Following product recovery, flush area with water.

## 7. Handling and Storage

- Handling :** Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required (See Section 8: Exposure controls / Personal protection). Wash thoroughly after handling.
- Storage :** Keep away from incompatible materials (See Section 10: Stability and Reactivity). Keep away from metals, strong bases, hypochlorites and chlorine-releasing compounds, and moisture. Keep only in original packaging. Store in a cool, dry, well-ventilated place. Keep container tightly closed when not in use. Store locked up.

## 8. Exposure Controls/Personal Protection

Control Parameters :

| Chemical Name  | CAS Number | Value type | Permissible Concentration | Basis |
|----------------|------------|------------|---------------------------|-------|
| Sulphuric acid | 7664-93-9  | TLV-TWA    | 0.2 mg/m <sup>3</sup>     | ACGIH |

**Engineering Controls :** Ensure adequate ventilation.

**Personal Protection :**

- Eye/Face :** Chemical splash goggles and face shield.
- Skin :** Chemical-resistant protective gloves.
- Respiratory :** Wear a NIOSH/MSHA approved respirator.
- Other :** Long pants and long sleeved shirt. Rubber boots and rubber apron as necessary.

## 9. Physical and Chemical Properties

|                                   |                      |
|-----------------------------------|----------------------|
| Physical State :                  | Liquid               |
| Colour :                          | Clear and colourless |
| Odour :                           | Not available        |
| Odour Threshold :                 | Not available        |
| pH :                              | 0 – 1                |
| Freezing Point :                  | Not available        |
| Boiling Point :                   | Not available        |
| Flash Point :                     | Not available        |
| Evaporation Rate :                | Not available        |
| Flammability (solids and gases) : | Not applicable       |
| Lower Flammability Limit :        | Not available        |
| Upper Flammability Limit :        | Not available        |
| Vapour Pressure :                 | Not available        |
| Vapour Density :                  | Not available        |
| Relative Density :                | 1.84                 |
| Solubility :                      | Complete in water    |
| Partition Coefficient :           | Not available        |
| Auto-ignition Temperature :       | Not available        |
| Decomposition Temperature :       | Not available        |
| Viscosity :                       | Not available        |

## 10. Stability and Reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity :                       | With incompatible materials. Contact with soft metals forms flammable hydrogen gas. Contact with hypochlorites and chlorine-releasing compounds forms toxic chlorine gas. |
| Chemical stability :               | Chemically stable.  |
| Hazardous reactions :              | With incompatible materials. Contact with water releases large amounts of heat. Polymerization not expected to occur.   |
| Conditions to avoid :              | Avoid incompatible materials.   |
| Incompatible materials :           | Reducing agents, hypochlorites and chlorine-releasing compounds, combustible materials, strong bases, soft metals, metals.  |
| Hazardous decomposition products : | Not applicable.   |

## 11. Toxicological Information

|                      |   |
|----------------------|---|
| Routes of Exposure : |   |
| Eye contact :        | Causes serious eye damage.                          |
| Skin contact :       | Causes severe skin burns.                           |
| Ingestion :          | Causes burns to mouth, throat and stomach.          |
| Inhalation :         | Causes burns to nose, throat and respiratory tract. |

#### Symptoms of Acute Exposure

|                |   |
|----------------|---|
| Eye contact :  | Burns, redness, watering, pain, loss of vision.   |
| Skin contact : | Severe burns, redness, itching, swelling, damage to underlying tissues.                                 |
| Ingestion :    | Burns, irritation and swelling to mouth, throat and stomach.  |
| Inhalation :   | Burns to nose, throat and respiratory tract. Coughing, difficulty breathing and/or shortness of breath. |

Chronic Effects: IARC has classified exposure to strong inorganic acid mists containing sulphuric acid as being carcinogenic to humans. The route of entry is inhalation of these mists resulting in respiratory cancers.

#### Calculated Acute Toxicity Estimates

|              |               |
|--------------|---------------|
| Oral :       | Not available |
| Dermal :     | Not available |
| Inhalation : | Not available |

## 12. Ecological Information

Not available.

## 13. Disposal Considerations

Dispose of contents/container according to local, provincial and federal regulations.

## 14. Transportation Information

For transportation in a road vehicle or a railway vehicle :

|                      |                    |                |
|----------------------|--------------------|----------------|
| TDG Classification : | UN Number:         | 1830           |
|                      | Shipping Name :    | SULPHURIC ACID |
|                      | Class :            | 8              |
|                      | Subclass :         | none           |
|                      | Packing Group :    | II             |
|                      | Limited Quantity : | 1L or less     |

## 15. Regulatory Information

Not available

## 16. Other Information

SDS Revision Date : December 3, 2025