

# Safety Data Sheet

#20282634 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

| PRODUCT                         | CAS NUMBER | FORMULA    | VERSION | REVISION DATE |
|---------------------------------|------------|------------|---------|---------------|
| 2-Nitrobenzenesulfonyl chloride | 1694-92-4  | C6H4ClNO4S | 10      | 20 Aug 2026   |

## SECTION 1

### Identification

|                                |                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Product name                   | 2-Nitrobenzenesulfonyl chloride                                                                                           |
| CAS number                     | 1694-92-4                                                                                                                 |
| Chemical formula               | C6H4ClNO4S                                                                                                                |
| Molecular weight               | 221.62                                                                                                                    |
| SMILES                         | <chem>C1=CC=C(C(=C1)[N+](=O)[O-])S(=O)(=O)Cl</chem>                                                                       |
| EC / EINECS number             | 216-907-1                                                                                                                 |
| Recommended use & restrictions | For research use only. Laboratory use. Manufacture of chemicals. Not for human or animal use                              |
| Emergency telephone            | 0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE)) |

## SECTION 2

## Hazard identification

**DANGER**

| CODE                                                   | HAZARD STATEMENT                                                                                                                                                                                                             |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>H290</b>                                            | May be corrosive to metals                                                                                                                                                                                                   |
| <b>H314 (sub cat. 1B)</b>                              | Causes severe skin burns and eye damage                                                                                                                                                                                      |
| CODE                                                   | PRECAUTIONARY STATEMENT                                                                                                                                                                                                      |
| <b>P260</b>                                            | Do not breathe dust/fume/gas/mist/vapours/spray                                                                                                                                                                              |
| <b>P264</b>                                            | Wash thoroughly after handling                                                                                                                                                                                               |
| <b>P280</b>                                            | Wear protective gloves/protective clothing/eye protection/face protection                                                                                                                                                    |
| <b>P301+P330+P331</b>                                  | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting                                                                                                                                                                            |
| <b>P304+P340</b>                                       | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing                                                                                                                              |
| <b>P305+P351+P338</b>                                  | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing                                                                                             |
| <b>Other hazards (e.g. PBT / vPvB, not classified)</b> | Does not contain components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB). Does not contain components considered to have endocrine-disrupting properties |

## SECTION 3

## Composition / information on ingredients

|                                           |                                                                 |
|-------------------------------------------|-----------------------------------------------------------------|
| <b>Purity / concentration</b>             | c. 100% 2-Nitrobenzenesulfonyl chloride (CAS: 1694-92-4)- H314b |
| <b>Impurities / stabilising additives</b> | None                                                            |

#### SECTION 4

### First-aid measures

|                                                   |                                                                                                                                                                    |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                 | Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.                                                            |
| <b>Skin contact</b>                               | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.                                            |
| <b>Eye contact</b>                                | Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention.                                     |
| <b>Ingestion</b>                                  | After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise. |
| <b>Symptoms / effects &amp; medical attention</b> | See Section 11                                                                                                                                                     |

#### SECTION 5

### Fire-fighting measures

|                                       |                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Dry chemical / dry powder. Carbon dioxide (CO <sub>2</sub> ). Sand                                                                                                                                                                                                                                                          |
| <b>Unsuitable extinguishing media</b> | Water                                                                                                                                                                                                                                                                                                                       |
| <b>Special hazards</b>                | Carbon oxides<br>Nitrogen oxides (NO <sub>x</sub> )<br>Sulfur oxides<br>Hydrogen chloride gas<br>Combustible.<br>Development of hazardous combustion gases or vapours possible in the event of fire.                                                                                                                        |
| <b>Advice for firefighters</b>        | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. |

#### SECTION 6

### Accidental release measures

|                                           |                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions &amp; PPE</b>     | Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8. |
| <b>Environmental precautions</b>          | Avoid discharge into drains, water courses or onto the ground.                                                          |
| <b>Containment &amp; clean-up methods</b> | Collect spillage with shovel, broom or the like.                                                                        |

*For specific precautions, see Section 8 and Section 13.*

## SECTION 7

### Handling & storage

**Storage temperature** Ambient

**Precautions for safe handling**

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs.

Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Remove contaminated clothing and launder thoroughly before re-use.

Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes.

Do not breathe dust/fume/gas/mist/vapours/spray.

**Conditions for safe storage (incompatibilities)**

Hygroscopic. Store under inert gas.

## SECTION 8

### Exposure controls / personal protection

**Occupational exposure limits (OEL / WEL)** *Not applicable*

**DNEC/PNEC data** *Not applicable*

**Eye / face protection**

Safety glasses

Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.

**Skin / hand protection**

Gloves: Nitrile Rubber, 0.11mm (480 mins).

**Respiratory protection**

Full-face respirator

Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

## SECTION 9

**Physical & chemical properties**

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Density (g/mL)                     | 1 g/mL<br>DERIVED FROM: LITERATURE         |
| Flash point                        | Not applicable                             |
| Acidity                            | Acid<br>DERIVED FROM: LITERATURE           |
| Appearance / physical state        | Solid<br>DERIVED FROM: LITERATURE          |
| Colour                             | Yellow<br>DERIVED FROM: LITERATURE         |
| Odour                              | Characteristic<br>DERIVED FROM: LITERATURE |
| Melting / freezing point           | 63-67°C<br>DERIVED FROM: LITERATURE        |
| Boiling point                      | Not applicable                             |
| Solubility (water)                 | Not applicable                             |
| pH                                 | Not applicable                             |
| Vapour pressure                    | Not applicable                             |
| Partition coefficient (log Pow)    | Not applicable                             |
| Auto-ignition / decomposition temp | Not applicable                             |

## SECTION 10

**Stability & reactivity**

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| Chemical stability / reactivity  | Stable under the prescribed storage conditions         |
| Conditions to avoid              | Avoid moisture                                         |
| Incompatible materials           | Strong oxidising agents. Water. Strong bases (alkalis) |
| Hazardous decomposition products | See section 5                                          |

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**SECTION 11****Toxicological information**

|                                          |                                                                          |
|------------------------------------------|--------------------------------------------------------------------------|
| <b>Acute toxicity (LD50 / LC50)</b>      | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| <b>Skin corrosion / irritation</b>       | Causes severe burns                                                      |
| <b>Eye corrosion / irritation</b>        | Causes serious eye damage                                                |
| <b>Respiratory / skin sensitisation</b>  | Not classified                                                           |
| <b>Carcinogenicity</b>                   | Not classified                                                           |
| <b>Mutagenicity</b>                      | Not classified                                                           |
| <b>Reproductive toxicity</b>             | Not classified                                                           |
| <b>STOT (single / repeated exposure)</b> | Not classified                                                           |
| <b>Aspiration hazard</b>                 | Not classified                                                           |
| <b>Endocrine disruptors</b>              | Not classified                                                           |

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**SECTION 12****Ecological information**

|                                        |                       |
|----------------------------------------|-----------------------|
| <b>Aquatic toxicity</b>                | <i>Not applicable</i> |
| <b>Persistence &amp; degradability</b> | <i>Not applicable</i> |
| <b>Bioaccumulative potential</b>       | <i>Not applicable</i> |
| <b>Mobility in soil</b>                | <i>Not applicable</i> |
| <b>PBT / vPvB assessment</b>           | <i>Not applicable</i> |

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**SECTION 13****Disposal considerations**

|                                           |                                                          |
|-------------------------------------------|----------------------------------------------------------|
| <b>Waste treatment / disposal methods</b> | Dispose of in accordance with local/national regulations |
|-------------------------------------------|----------------------------------------------------------|

## SECTION 14

**Transport information**

|                              |                                                                       |
|------------------------------|-----------------------------------------------------------------------|
| UN number                    | UN3261                                                                |
| Proper shipping name         | CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.                              |
| Class                        | 8                                                                     |
| Packing group                | II                                                                    |
| Transport category           | 2                                                                     |
| Tunnel code                  | (E)                                                                   |
| Packing instruction (ADR)    | P002                                                                  |
| Packing instruction (IMDG)   | P002                                                                  |
| Environmental hazards        | Not a marine pollutant                                                |
| Special precautions for user | Handle in accordance with good industrial hygiene and safety practice |



## SECTION 15

**Regulatory information**

|                                         |                       |
|-----------------------------------------|-----------------------|
| REACH code                              | Y110                  |
| UFI code                                | <i>Not applicable</i> |
| ECHA notification                       | <i>Not applicable</i> |
| Chemical safety assessment carried out? | <i>Not applicable</i> |

## SECTION 16

**Other information**

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Revision notes / other information | <p>Previous SDS (ver 1.0) published 11/25/2019 According to REACH etc. (Amendment etc.) (EU Exit) Regulations 202 No. 1577.</p> <p>Hazard classification and labelling according to Regulation (EC) 1272/2008</p> <p>All eye/face protection should comply with EN ISO 16321-1:2022</p> <p>Respiratory equipment: Reusable air-purifying respirator (APR)</p> <p>Filter Type: ABEK</p> <p>Standard: EN 14387</p> <p>National Regulations:</p> <p>-Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances</p> <p>Other regulations, limitations and legal regulations:</p> <p>-Directive 94/33/EC- The protection of young people at work</p> |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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