

# SAFETY DATA SHEET (SDS)

in accordance with Regulation (EC) No 1907/2006 (REACH), Annex II — Regulation (EU) 2020/878

Date: 21.07.2026 | Version: 9 | EN

## benzoic acid

benzoic acid

CAS 65-85-0

C<sub>7</sub>H<sub>6</sub>O<sub>2</sub>

EC 200-618-2



MOLAR MASS  
**122.12**

LOGP  
**1.9**

### HAZARD CLASSIFICATION (GHS / CLP)



**Danger**

H372 H315 H318

## 1. Identification of the substance/mixture and of the company/undertaking

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| 1.1 Substance name    | benzoic acid                                                |
| 1.1 IUPAC name        | benzoic acid                                                |
| 1.1 CAS number        | 65-85-0                                                     |
| 1.1 EC number         | 200-618-2                                                   |
| 1.1 PubChem CID       | 243                                                         |
| 1.1 InChIKey          | WPYMKLBDIGXBTP-UHFFFAOYSA-N                                 |
| 1.1 SMILES            | <chem>C1=CC=C(C=C1)C(=O)O</chem>                            |
| 1.1 Molecular formula | C <sub>7</sub> H <sub>6</sub> O <sub>2</sub> <sup>[7]</sup> |
| 1.1 Molar mass        | 122.12 g/mol <sup>[7]</sup>                                 |
| 1.1 Exact mass        | —                                                           |

### 1.2 Uses

For laboratory and research purposes. Not for use in the production of food, medicines or cosmetics without appropriate authorisation.

### 1.3 Details of the supplier

|              |                                              |
|--------------|----------------------------------------------|
| Name         | ADVANCED CHEMISTRY R&D SOLUTIONS             |
| Address      | ul. Juliana Przybosa 8, 21-400 Łuków, Poland |
| Tax ID (NIP) |                                              |
| Tel.         |                                              |
| E-mail       |                                              |
| Website      |                                              |

## 1.4 Emergency telephone number

### Emergency telephone

+48 42 631 47 24

Toxicological Information Centre (CIT), Łódź — available 24/7

## 2. Hazards identification



**Danger**

### Hazard statements (H) <sup>[3][4][9]</sup>

|             |                                                                |
|-------------|----------------------------------------------------------------|
| <b>H372</b> | Causes damage to organs through prolonged or repeated exposure |
| <b>H315</b> | Causes skin irritation                                         |
| <b>H318</b> | Causes serious eye damage                                      |

### Precautionary statements (P) <sup>[3][4][9]</sup>

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <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>P302+P352</b>      | IF ON SKIN: Wash with plenty of water                                                                                           |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes; Remove contact lenses, if present and easy to do. Continue rinsing |
| <b>P310</b>           | Immediately call a POISON CENTER or doctor/physician                                                                            |
| <b>P314</b>           | Get medical advice/attention if you feel unwell                                                                                 |
| <b>P332+P313</b>      | If skin irritation occurs: Get medical advice/attention                                                                         |
| <b>P501</b>           | Dispose of contents/container to an approved waste collection point                                                             |

### 3. Composition/information on ingredients

|                   |                                                                                       |
|-------------------|---------------------------------------------------------------------------------------|
| Substance type    | pure substance                                                                        |
| CAS Number        | 65-85-0                                                                               |
| EC number         | 200-618-2                                                                             |
| Molecular formula | C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>                                          |
| Concentration     | ≥99% (typical reagent-grade purity — to be confirmed by the supplier's specification) |

### 4. First aid measures



#### Inhalation

Move the affected person to fresh air. Keep at rest. If not breathing: artificial respiration (qualified personnel only). <sup>[1][2][11]</sup>

#### Skin contact

Remove contaminated clothing. Rinse skin with soap and water (min. 15 minutes). <sup>[1][2][11]</sup>

#### Eye contact

Rinse eyes with running water (min. 15 minutes). Remove contact lenses if possible. Call an ophthalmologist immediately. <sup>[1][2][11]</sup>

#### Ingestion

Do NOT induce vomiting (unless directed by a physician). Rinse mouth with water. Never give anything by mouth to an unconscious person. Poison Centre Łódź: +48 42 631 47 24 (24/7). Emergency number: 112. <sup>[1][2][11]</sup>

#### Symptoms and effects

skin redness and irritation; eye irritation and watering. <sup>[3][9]</sup>

#### Notes for physician

Requires verification

**Emergency numbers: CIT Łódź: +48 42 631 47 24 (24/7) | Emergency: 112**

### 5. Firefighting measures

|                                |                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | Adapt extinguishing media to surroundings. CO <sub>2</sub> , dry powder, foam. <sup>[1][2][11]</sup> |
| Unsuitable extinguishing media | No specific restrictions. <sup>[1][2][11]</sup>                                                      |
| Specific hazards               | Thermal decomposition products: CO, CO <sub>2</sub> . <sup>[12]</sup>                                |
| Advice for firefighters        | Use self-contained breathing apparatus (SCBA). Full protective suit. <sup>[1][2][11]</sup>           |
| Flash Point                    | 121 °C <sup>[8]</sup>                                                                                |

### 6. Accidental release measures

|                                         |                                                                                                                                                            |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions                    | Use personal protective equipment (see Section 8). Avoid breathing dust. <sup>[1][2][11]</sup>                                                             |
| Environmental precautions               | Prevent entry into sewers, groundwater and surface water. <sup>[1][2][11]</sup>                                                                            |
| Methods for containment and cleaning up | Collect mechanically into suitable containers. Absorption: sand, vermiculite, diatomaceous earth. Do not sweep dry (dust formation). <sup>[1][2][11]</sup> |
| Related sections                        | 8; 13                                                                                                                                                      |

### 7. Handling and storage

|                     |                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------|
| Precautions         | Work in a fume hood or with adequate ventilation. No eating, drinking or smoking in the work area. <sup>[1][2][11]</sup> |
| Storage temperature | Store at room temperature (15-25 °C) or as indicated on the label. <sup>[1][2][11]</sup>                                 |
| Humidity            | Store in a dry place (<60% RH). <sup>[1][2][11]</sup>                                                                    |

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| <b>Light</b>                  | Protect from direct sunlight. <sup>[1][2][11]</sup>                               |
| <b>Incompatible materials</b> | Strong oxidizers, strong bases, Base metals (hydrogen evolution). <sup>[12]</sup> |

## 8. Exposure controls/personal protection

### 8.1 Control parameters

|                           |                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OEL — NDS (Poland)</b> | No NDS (OEL) value in the available working list — verify in the current MRPiPS regulation before use; do not assume the absence of a limit value. |
| <b>OEL (EU)</b>           | The EU OEL value has not been verified against the available dataset — check the IOELV/BOELV directives; do not assume the absence of a value.     |
| <b>DNEL</b>               | No data available.                                                                                                                                 |
| <b>PNEC</b>               | No data available.                                                                                                                                 |

### 8.2 Personal protective equipment (PPE) <sup>[5][6][13]</sup>

|                                                                                                                                                                                               |                                                                                                                                                                           |                                                                                                                                                   |                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>Chemical-resistant protective gloves</b><br/>EN ISO 374-1:2016+A1:2018<br/>nitrile (min. 0.11 mm)</p> |  <p><b>Closed safety spectacles or goggles</b><br/>EN ISO 16321-1:2022 / EN 166:2001</p> |  <p><b>Face shield (splash risk)</b><br/>EN ISO 16321-1:2022</p> |  <p><b>Closed safety footwear with toe protection</b><br/>EN ISO 20345:2022 (S2/S3)</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 9. Physical and chemical properties

| Property (item 9.1)                    | Value                                                      | Source |
|----------------------------------------|------------------------------------------------------------|--------|
| <b>Physical state</b>                  | Solid                                                      |        |
| <b>Colour</b>                          | Monoclinic tablets, plates, leaflets <sup>[7]</sup>        |        |
| <b>Odour</b>                           | Odorless or with a slight benzaldehyde odor <sup>[7]</sup> |        |
| <b>pH (1% aqueous solution)</b>        | Not applicable                                             |        |
| <b>Melting point</b>                   | 122.39°C <sup>[8]</sup>                                    |        |
| <b>Boiling point</b>                   | 249.2°C <sup>[8]</sup>                                     |        |
| <b>Flash point</b>                     | 121°C <sup>[8]</sup>                                       |        |
| <b>Flammability</b>                    | No data available.                                         |        |
| <b>Lower and upper explosion limit</b> | Not applicable (REACH 9.1(g))                              |        |
| <b>Density (20°C)</b>                  | 1.316 g/cm <sup>3</sup> <sup>[8]</sup>                     |        |
| <b>Vapour pressure</b>                 | No data available.                                         |        |
| <b>Relative vapour density</b>         | Not applicable (REACH 9.1(q))                              |        |
| <b>Kinematic viscosity</b>             | Not applicable (REACH 9.1(l))                              |        |
| <b>Auto-ignition temperature</b>       | No data available.                                         |        |
| <b>Decomposition temperature</b>       | Not applicable                                             |        |
| <b>Water solubility (20°C)</b>         | 3.4 g/L, 25°C <sup>[8]</sup>                               |        |
| <b>Particle characteristics</b>        | No data available.                                         |        |

| Property (item 9.1)                               | Value                                                       | Source |
|---------------------------------------------------|-------------------------------------------------------------|--------|
| Partition coefficient n-octanol/water (log value) | 1.9 <sup>[8]</sup>                                          |        |
| Molar mass                                        | 122.12 g/mol <sup>[7]</sup>                                 |        |
| Molecular formula                                 | C <sub>7</sub> H <sub>6</sub> O <sub>2</sub> <sup>[7]</sup> |        |

## 10. Stability and reactivity

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Reactivity             | Stable under normal storage and handling conditions.              |
| Chemical stability     | Thermally stable under recommended conditions.                    |
| Hazardous reactions    | No hazardous reactions known under normal conditions.             |
| Conditions to avoid    | High temperatures, direct sunlight, moisture.                     |
| Incompatible materials | Strong oxidizers, strong bases, Base metals (hydrogen evolution). |
| Decomposition products | Thermal decomposition products:CO, CO <sub>2</sub> .              |

## 11. Toxicological information

|                                       |                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 (oral)                           | LD50 1940 mg/kg (mouse, oral) [PubChem]                                                                                                           |
| LD50 (dermal)                         | No data available.                                                                                                                                |
| LC50 (inhalation)                     | No data available.                                                                                                                                |
| Skin irritation                       | Category 2 — skin irritation.                                                                                                                     |
| Eye irritation                        | Category 1 — serious eye damage.                                                                                                                  |
| Sensitisation                         | No data available.                                                                                                                                |
| Mutagenicity                          | Not classified (no harmonised classification in CLP Annex VI) <sup>[3][9]</sup>                                                                   |
| Carcinogenicity                       | No data available.                                                                                                                                |
| IARC classification (carcinogenicity) | No individual IARC monograph for this CAS — this is not confirmation of the absence of carcinogenicity (cf. CLP/GHS classification in section 2). |
| Reproductive toxicity                 | Not classified (no harmonised classification in CLP Annex VI) <sup>[3][9]</sup>                                                                   |
| STOT — single exposure                | Not classified (no harmonised classification in CLP Annex VI) <sup>[3][9]</sup>                                                                   |
| STOT — repeated exposure              | Category 1 (H372): Causes damage to organs through prolonged or repeated exposure. <sup>[3][9]</sup>                                              |
| Aspiration hazard                     | Not classified (no harmonised classification in CLP Annex VI) <sup>[3][9]</sup>                                                                   |

## 12. Ecological information

|                                        |                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aquatic toxicity</b>                | No data available.                                                                                                                                      |
| <b>Persistence / biodegradability</b>  | No data available.                                                                                                                                      |
| <b>Bioaccumulative potential</b>       | log Kow = 1.9 <sup>[8]</sup> . Low bioaccumulation potential (log Kow < 4.5 — PBT/vPvB screening criterion per ECHA Guidance R.11). <sup>[14][15]</sup> |
| <b>Mobility in soil</b>                | No data available.                                                                                                                                      |
| <b>PBT/vPvB assessment</b>             | Insufficient data to assess PBT/vPvB.                                                                                                                   |
| <b>Endocrine disrupting properties</b> | No information.                                                                                                                                         |

## 13. Disposal considerations

|                         |                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal method</b>  | Hand over for disposal to licensed contractors in accordance with national and local regulations. Do not discharge into sewers.                                  |
| <b>Waste code (EWC)</b> | 16 05 06* — Laboratory and analytical chemicals (e.g. chemical reagents) containing hazardous substances. Verification of the EWC code required. <sup>[10]</sup> |
| <b>Packaging</b>        | Cleaned packaging may be recycled. Contaminated packaging must be treated as hazardous waste.                                                                    |

## 14. Transport information

|                             |                                                                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UN number</b>            | VERIFICATION REQUIRED — no verified UN assignment.                                                                                              |
| <b>Environmental hazard</b> | Not classified as environmentally hazardous for transport (no H400/H410/H411 in CLP Annex VI; no marine pollutant mark required) <sup>[3]</sup> |
| <b>Special precautions</b>  | Handle as dangerous goods according to the assigned class (ADR/IMDG/IATA); apply the precautions appropriate to that class.                     |
| <b>CN/HS code</b>           | CN/HS code: verification required in the Eurostat Combined Nomenclature.                                                                        |
| <b>Notes</b>                | Transport classification not verified. Do not assume the absence of restrictions — check ADR/IMDG/IATA before shipping.                         |

## 15. Regulatory information

|                          |                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SVHC status</b>       | SVHC status not verified against the available dataset — check the current ECHA Candidate List; do not assume absence. <sup>[1]</sup>                                       |
| <b>REACH Annex XIV</b>   | Not verified against the ECHA Authorisation List — check REACH Annex XIV. <sup>[1]</sup>                                                                                    |
| <b>REACH Annex XVII</b>  | Not confirmed in the available Annex XVII dataset — verify against the current ECHA list before placing on the market; do not assume absence of restriction. <sup>[1]</sup> |
| <b>Verification date</b> | 2026-07-21                                                                                                                                                                  |

## 16. Other information

Legal status of classification: harmonised under CLP Annex VI — Reg. (EC) No 1272/2008 (as at the date of issue). Entries with an entry-into-force date after 21.07.2026 were omitted as future (not yet applicable).

Data aggregated automatically from public reference databases (PubChem, ECHA, NIST and others).

### Full text of H statements

|             |                                                                |
|-------------|----------------------------------------------------------------|
| <b>H372</b> | Causes damage to organs through prolonged or repeated exposure |
| <b>H315</b> | Causes skin irritation                                         |
| <b>H318</b> | Causes serious eye damage                                      |

### Full text of P statements

|             |                                                 |
|-------------|-------------------------------------------------|
| <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>P302+P352</b>      | IF ON SKIN: Wash with plenty of water                                                                                           |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes; Remove contact lenses, if present and easy to do. Continue rinsing |
| <b>P310</b>           | Immediately call a POISON CENTER or doctor/physician                                                                            |
| <b>P314</b>           | Get medical advice/attention if you feel unwell                                                                                 |
| <b>P332+P313</b>      | If skin irritation occurs: Get medical advice/attention                                                                         |
| <b>P501</b>           | Dispose of contents/container to an approved waste collection point                                                             |

## Abbreviations

|              |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------|
| <b>ADR</b>   | European Agreement concerning the International Carriage of Dangerous Goods by Road        |
| <b>ATE</b>   | Acute Toxicity Estimate                                                                    |
| <b>CAS</b>   | Chemical Abstracts Service                                                                 |
| <b>CLP</b>   | Classification, Labelling and Packaging (Reg. (EC) 1272/2008)                              |
| <b>CMR</b>   | Carcinogenic, Mutagenic, toxic to Reproduction                                             |
| <b>DNEL</b>  | Derived No-Effect Level                                                                    |
| <b>EC</b>    | European Community number                                                                  |
| <b>EPI</b>   | Personal protective equipment                                                              |
| <b>GHS</b>   | Globally Harmonized System                                                                 |
| <b>IATA</b>  | International Air Transport Association                                                    |
| <b>IMDG</b>  | International Maritime Dangerous Goods Code                                                |
| <b>SDS</b>   | Safety Data Sheet                                                                          |
| <b>LC50</b>  | Lethal Concentration, 50%                                                                  |
| <b>LD50</b>  | Lethal Dose, 50%                                                                           |
| <b>NDS</b>   | Maximum admissible concentration (workplace, PL)                                           |
| <b>NDSCh</b> | Short-term exposure limit (PL)                                                             |
| <b>OEL</b>   | Occupational Exposure Limit                                                                |
| <b>PBT</b>   | Persistent, Bioaccumulative and Toxic                                                      |
| <b>PNEC</b>  | Predicted No-Effect Concentration                                                          |
| <b>REACH</b> | Registration, Evaluation, Authorisation and Restriction of Chemicals (Reg. (EC) 1907/2006) |
| <b>STOT</b>  | Specific Target Organ Toxicity                                                             |
| <b>SVHC</b>  | Substance of Very High Concern                                                             |
| <b>TPSA</b>  | Topological Polar Surface Area                                                             |
| <b>vPvB</b>  | very Persistent and very Bioaccumulative                                                   |

## Version history

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| <b>v9 (21.07.2026)</b> | Based on ECHA harmonised classification (Annex VI to CLP, ATP 23). |
|------------------------|--------------------------------------------------------------------|

## References

- [1] EP and Council. Reg.(EC) No 1907/2006 (REACH). Art.31, Annex II. OJ EU L 396/2006. URL: <https://eur-lex.europa.eu/eli/reg/2006/1907/oj> Accessed: 2026-07-21.
- [2] European Commission. Reg.(EU) 2020/878 — amending Annex II REACH. OJ EU L 203/2020. From 01.01.2023. URL: <https://eur-lex.europa.eu/eli/reg/2020/878/oj> Accessed: 2026-07-21.
- [3] EP and Council. Reg.(EC) 1272/2008 (CLP) + ATP 23. OJ EU L 353/2008. URL: <https://eur-lex.europa.eu/eli/reg/2008/1272/oj> Accessed: 2026-07-21.
- [4] United Nations. GHS Rev.9. ST/SG/AC.10/30/Rev.9. New York and Geneva: United Nations, 2021. URL: <https://unece.org/transport/dangerous-goods/ghs-rev9-2021> Accessed: 2026-07-21.
- [5] ISO. ISO 7010:2019 — Graphical symbols. Safety signs. URL: <https://www.iso.org/standard/72424.html> Accessed: 2026-07-21.
- [6] ISO. ISO 3864-1:2011 — Safety colours and safety signs. URL: <https://www.iso.org/standard/51021.html> Accessed: 2026-07-21.
- [7] PubChem. National Center for Biotechnology Information (NIH/NLM), chemical compound database. URL: <https://pubchem.ncbi.nlm.nih.gov/compound/243> Accessed: 2026-07-21.

- [8] Rumble, J.R., ed. CRC Handbook of Chemistry and Physics. 105th ed. Boca Raton: CRC Press, 2024. URL: <https://hbcpc.chemnetbase.com> Accessed: 2026-07-21.
- [9] ECHA. European Chemicals Agency — harmonised classification inventory (CLP Annex VI). URL: <https://echa.europa.eu> Accessed: 2026-07-21.
- [10] European Commission. Decision 2000/532/EC establishing a list of wastes (European Waste Catalogue). OJ EU L 226/3. URL: <https://eur-lex.europa.eu/eli/dec/2000/532/oj> Accessed: 2026-07-21.
- [11] European Chemicals Agency (ECHA). Guidance on the Compilation of Safety Data Sheets. Version 4.0. Helsinki: European Chemicals Agency, 2020. URL: [https://echa.europa.eu/documents/10162/2324906/sds\\_en.pdf](https://echa.europa.eu/documents/10162/2324906/sds_en.pdf) Accessed: 2026-07-21.
- [12] Urban, P.G., ed. Bretherick's Handbook of Reactive Chemical Hazards. 8th ed. Oxford: Academic Press.
- [13] CEN. Personal protective equipment standards (EN ISO 374-1, EN 166, EN 149, EN 14387, EN ISO 20345). Brussels: European Committee for Standardization.
- [14] ECHA. Guidance on Information Requirements and Chemical Safety Assessment, Chapter R.11: PBT/vPvB Assessment. Helsinki: European Chemicals Agency. URL: <https://echa.europa.eu/guidance-documents/guidance-on-information-requirements-and-chemical-safety-assessment> Accessed: 2026-07-21.
- [15] European Parliament and Council. Regulation (EC) No 1907/2006 (REACH), Annex XIII — Criteria for the identification of PBT and vPvB substances. OJ EU L 396/2006 (consolidated). URL: <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02006R1907-20140410> Accessed: 2026-07-21.
- [16] MRIPS Regulation of 12.06.2018 — NDS/NDN. Journal of Laws 2024 item 1017. URL: <https://isap.sejm.gov.pl/isap.nsf/DocDetails.xsp?id=WDU20240001017> Accessed: 2026-07-21.

## External links

NIST: <https://webbook.nist.gov/cgi/cbook.cgi?ID=65-85-0>

ChEMBL: [https://www.ebi.ac.uk/chembl/compound\\_report\\_card/CHEMBL541](https://www.ebi.ac.uk/chembl/compound_report_card/CHEMBL541)

**NFPA 704** (supplementary information — NFPA/USA system; not a required element of an EU safety data sheet under REACH Annex II)



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**Author:** [www.MolGod.org](http://www.MolGod.org) — platform for automated safety data sheets (SDS).

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