

# SAFETY DATA SHEET (SDS)

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

Date: 21.07.2026 | Version: 2 | EN

## bisphenol A

4-[2-(4-hydroxyphenyl)propan-2-yl]phenol

CAS 80-05-7

C<sub>15</sub>H<sub>16</sub>O<sub>2</sub>

EC 201-245-8



MOLAR MASS  
228.29

LOGP  
3.3

### HAZARD CLASSIFICATION (GHS / CLP)



**Danger**

H360F

H335

H318

H317

H400

H410

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

|                       |                                                               |
|-----------------------|---------------------------------------------------------------|
| 1.1 Substance name    | bisphenol A                                                   |
| 1.1 IUPAC name        | 4-[2-(4-hydroxyphenyl)propan-2-yl]phenol                      |
| 1.1 CAS number        | 80-05-7                                                       |
| 1.1 EC number         | 201-245-8                                                     |
| 1.1 PubChem CID       | 6623                                                          |
| 1.1 InChIKey          | IISBACLAFKSPIT-UHFFFAOYSA-N                                   |
| 1.1 SMILES            | CC(C)(C1=CC=C(C=C1)O)C2=CC=C(C=C2)O                           |
| 1.1 Molecular formula | C <sub>15</sub> H <sub>16</sub> O <sub>2</sub> <sup>[7]</sup> |
| 1.1 Molar mass        | 228.29 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>H360F</b> | May damage fertility                                 |
| <b>H335</b>  | May cause respiratory irritation                     |
| <b>H318</b>  | Causes serious eye damage                            |
| <b>H317</b>  | May cause an allergic skin reaction                  |
| <b>H400</b>  | Very toxic to aquatic life                           |
| <b>H410</b>  | Very toxic to aquatic life with long lasting effects |

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

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>P201</b>           | Obtain special instructions before use                                                                                          |
| <b>P261</b>           | Avoid breathing dust/fume/gas/mist/vapours/spray                                                                                |
| <b>P271</b>           | Use only outdoors or in a well-ventilated area                                                                                  |
| <b>P272</b>           | Contaminated work clothing should not be allowed out of the workplace                                                           |
| <b>P273</b>           | Avoid release to the environment                                                                                                |
| <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>P304+P340</b>      | IF INHALED: Remove person to fresh air and keep comfortable for breathing                                                       |
| <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>P308+P313</b>      | IF exposed or concerned: Get medical advice/attention                                                                           |
| <b>P310</b>           | Immediately call a POISON CENTER or doctor/physician                                                                            |
| <b>P333+P313</b>      | If skin irritation or rash occurs: Get medical advice/attention                                                                 |
| <b>P391</b>           | Collect spillage                                                                                                                |
| <b>P403+P233</b>      | Store in a well-ventilated place: Keep container tightly closed                                                                 |
| <b>P405</b>           | Store locked up                                                                                                                 |
| <b>P501</b>           | Dispose of contents/container to an approved waste collection point                                                             |

### 3. Composition/information on ingredients

|                                                                     |                                                                                       |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Substance type                                                      | pure substance                                                                        |
| CAS Number                                                          | 80-05-7                                                                               |
| EC number                                                           | 201-245-8                                                                             |
| Molecular formula                                                   | C <sub>15</sub> H <sub>16</sub> O <sub>2</sub>                                        |
| Concentration                                                       | ≥99% (typical reagent-grade purity — to be confirmed by the supplier's specification) |
| Specyficzne stężenia graniczne / M-współczynnik (CLP Zał. VI Tab.3) | M-współczynnik: 1, 10 [PL] [3]                                                        |

### 4. First aid measures



#### Inhalation

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

#### Skin contact

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

#### Eye contact

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

#### 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. [1][2][11]

#### Symptoms and effects

cough, shortness of breath, headache, dizziness; eye irritation and watering. [3][9]

#### 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. [1][2][11] |
| Unsuitable extinguishing media | No specific restrictions. [1][2][11]                                                      |
| Specific hazards               | Thermal decomposition products: CO, CO <sub>2</sub> . [12]                                |
| Advice for firefighters        | Use self-contained breathing apparatus (SCBA). Full protective suit. [1][2][11]           |
| Flash Point                    | 227°C [8]                                                                                 |

### 6. Accidental release measures

|                                         |                                                                                                                                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions                    | Use personal protective equipment (see Section 8). Avoid breathing dust. [1][2][11]                                                             |
| Environmental precautions               | Prevent entry into sewers, groundwater and surface water. [1][2][11]                                                                            |
| Methods for containment and cleaning up | Collect mechanically into suitable containers. Absorption: sand, vermiculite, diatomaceous earth. Do not sweep dry (dust formation). [1][2][11] |
| 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. [1][2][11] |
| Storage temperature | Store at room temperature (15-25°C) or as indicated on the label. [1][2][11]                                  |
| Humidity            | Store in a dry place (<60% RH). [1][2][11]                                                                    |

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Light                  | Protect from direct sunlight. <sup>[1][2][11]</sup> |
| Incompatible materials | Strong oxidizers. <sup>[12]</sup>                   |

## 8. Exposure controls/personal protection

### 8.1 Control parameters

|                    |                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| OEL — NDS (Poland) | 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. |
| OEL (EU)           | 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.     |
| DNEL               | No data available.                                                                                                                                 |
| PNEC               | 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>Respiratory protection</b><br/>EN 149:2001+A1:2009<br/>FFP2 (P2 – particles/aerosol)</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 |
|---------------------------------|--------------------------------------------------------------------------------------|--------|
| Physical state                  | Solid                                                                                |        |
| Colour                          | Crystallizes as prisms from dil acetic acid and as needles from water <sup>[7]</sup> |        |
| Odour                           | Mild phenolic odor <sup>[7]</sup>                                                    |        |
| pH (1% aqueous solution)        | Not applicable                                                                       |        |
| Melting point                   | 156.11°C <sup>[8]</sup>                                                              |        |
| Boiling point                   | 360.5°C <sup>[8]</sup>                                                               |        |
| Flash point                     | 227°C <sup>[8]</sup>                                                                 |        |
| Flammability                    | No data available.                                                                   |        |
| Lower and upper explosion limit | Not applicable (REACH 9.1(g))                                                        |        |
| Density (20°C)                  | 1.195 g/cm <sup>3</sup> <sup>[8]</sup>                                               |        |
| Vapour pressure                 | No data available.                                                                   |        |
| Relative vapour density         | Not applicable (REACH 9.1(q))                                                        |        |
| Kinematic viscosity             | Not applicable (REACH 9.1(l))                                                        |        |
| Auto-ignition temperature       | No data available.                                                                   |        |
| Decomposition temperature       | Not applicable                                                                       |        |
| Water solubility (20°C)         | 0.3 g/L, 25°C <sup>[8]</sup>                                                         |        |
| Particle characteristics        | No data available.                                                                   |        |

| Property (item 9.1)                               | Value                                                         | Source |
|---------------------------------------------------|---------------------------------------------------------------|--------|
| Partition coefficient n-octanol/water (log value) | 3.3 <sup>[8]</sup>                                            |        |
| Molar mass                                        | 228.29 g/mol <sup>[7]</sup>                                   |        |
| Molecular formula                                 | C <sub>15</sub> H <sub>16</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.                                     |
| Decomposition products | Thermal decomposition products:CO, CO2.               |

## 11. Toxicological information

|                                       |                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 (oral)                           | No data available.                                                                                                                                |
| LD50 (dermal)                         | No data available.                                                                                                                                |
| LC50 (inhalation)                     | No data available.                                                                                                                                |
| Skin irritation                       | Not classified (no harmonised classification in CLP Annex VI) <sup>[3][9]</sup>                                                                   |
| Eye irritation                        | Category 1 — serious eye damage.                                                                                                                  |
| Sensitisation                         | Skin, Category 1 (H317): May cause an allergic skin reaction. <sup>[3][9]</sup>                                                                   |
| 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                 | Category 1A/1B (harmonised classification, Annex VI to CLP).                                                                                      |
| STOT — single exposure                | Category 3 (H335): May cause respiratory irritation. <sup>[3][9]</sup>                                                                            |
| STOT — repeated exposure              | Not classified (no harmonised classification in CLP Annex VI) <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>                | Harmonised classification (CLP Annex VI): H400 — Very toxic to aquatic life (Aquatic Acute 1); H410 — Very toxic to aquatic life with long lasting effects (Aquatic Chronic 1). Numerical LC <sub>50</sub> /EC <sub>50</sub> data unverified in the available dataset — do not assume absence of toxicity.(M-factor for acute/chronic cat. 1 — to be verified per Table 3 of Annex VI, if assigned.) |
| <b>Persistence / biodegradability</b>  | No data available.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Bioaccumulative potential</b>       | log Kow = 3.3 <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>                            | CLP classification (H400/H410) indicates aquatic environmental hazard — marine pollutant marking may be required; confirm per ADR 2.2.9 / IMDG criteria <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.                                                |
| <b>Environmentally hazardous (mark: fish and tree)</b> | Yes                                                                                                                                                                    |

## 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>  | Subject to general entries 28–30 of REACH Annex XVII (CMR substance cat. 1A/1B): sale to the general public prohibited — supply to professional users only. <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).

## Full text of H statements

|              |                                                      |
|--------------|------------------------------------------------------|
| <b>H360F</b> | May damage fertility                                 |
| <b>H335</b>  | May cause respiratory irritation                     |
| <b>H318</b>  | Causes serious eye damage                            |
| <b>H317</b>  | May cause an allergic skin reaction                  |
| <b>H400</b>  | Very toxic to aquatic life                           |
| <b>H410</b>  | Very toxic to aquatic life with long lasting effects |

## Full text of P statements

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>P201</b>           | Obtain special instructions before use                                                                                          |
| <b>P261</b>           | Avoid breathing dust/fume/gas/mist/vapours/spray                                                                                |
| <b>P271</b>           | Use only outdoors or in a well-ventilated area                                                                                  |
| <b>P272</b>           | Contaminated work clothing should not be allowed out of the workplace                                                           |
| <b>P273</b>           | Avoid release to the environment                                                                                                |
| <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>P304+P340</b>      | IF INHALED: Remove person to fresh air and keep comfortable for breathing                                                       |
| <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>P308+P313</b>      | IF exposed or concerned: Get medical advice/attention                                                                           |
| <b>P310</b>           | Immediately call a POISON CENTER or doctor/physician                                                                            |
| <b>P333+P313</b>      | If skin irritation or rash occurs: Get medical advice/attention                                                                 |
| <b>P391</b>           | Collect spillage                                                                                                                |
| <b>P403+P233</b>      | Store in a well-ventilated place: Keep container tightly closed                                                                 |
| <b>P405</b>           | Store locked up                                                                                                                 |
| <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

**v2 (21.07.2026)** Based on ECHA harmonised classification (Annex VI to CLP, ATP 23).

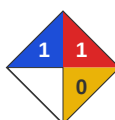
### References

- [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/6623> 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] Urben, 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=80-05-7>  
 ChEMBL: [https://www.ebi.ac.uk/chembl/compound\\_report\\_card/ChEMBL418971](https://www.ebi.ac.uk/chembl/compound_report_card/ChEMBL418971)

**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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