SAFETY DATA SHEET (SDS)

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

Date: 03.11.2026 | Version: 21 | EN

hydrogen peroxide solution

hydrogen peroxide

CAS 7722-84-1

H_2O_2 | EC 231-765-0

MOLAR MASS	LOGP
34.02	-0.9

HAZARD CLASSIFICATION (GHS / CLP)



Danger

H271 | H332 | H302 | H314

Hazard class scope limited to the harmonised classification (CLP Annex VI); classes outside the harmonised entry may require supplier self-classification (CLP Art. 4(3)) — verify with the supplier safety data sheet.

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

1.1 Substance name	hydrogen peroxide solution
1.1 IUPAC name	hydrogen peroxide
1.1 CAS number	7722-84-1
1.1 EC number	231-765-0
1.1 PubChem CID	784
1.1 InChIKey	MHAJPDPJQMAIIY-UHFFFAOYSA-N
1.1 SMILES	OO
1.1 Molecular formula	H_2O_2 [7]
1.1 Molar mass	34.015 g/mol [7]
1.1 Exact mass	34.0055 Da [7]

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

REFERENCE COPY — NO SUPPLIER DETAILS — NOT FOR DISTRIBUTION	Supplier details are not included in this reference copy. The supplier placing the substance on the market must complete this section and remains responsible for the sheet under REACH. MolGod.org prepares documentation and is not the supplier of this substance.

1.4 Emergency telephone number

Emergency telephone	112 (EU-wide emergency number)

Contact the poison centre designated in the country of placing on the market (CLP Art. 45).

2. Hazards identification

GHS:



PPE:



Prohibitions:



Danger

Hazard statements (H) [3][4][9]

H271	May cause fire or explosion; strong oxidiser
H332	Harmful if inhaled
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage

Precautionary statements (P) [3][4][9]

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P220	Keep away from clothing and other combustible materials
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+P330+P331	IF SWALLOWED: Rinse mouth; Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing; Rinse skin with water or shower
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes; Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P370+P378	In case of fire: Use appropriate media to extinguish
P405	Store locked up
P501	Dispose of contents/container to an approved waste collection point

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Hazard class scope limited to the harmonised classification (CLP Annex VI); classes outside the harmonised entry may require supplier self-classification (CLP Art. 4(3)) — verify with the supplier safety data sheet.

3. Composition/information on ingredients

Substance type	pure substance
CAS Number	7722-84-1
EC number	231-765-0
Molecular formula	H_2O_2
Concentration	≥99% (typical reagent-grade purity — to be confirmed by the supplier's specification)
Clp index no	008-003-00-9
Specific concentration limits / M-factor (CLP Annex VI Table 3)	SCL: H271: C ≥70 %; H272: 50 % ≤ C < 70 %; H314: C ≥ 70 %; H314: 50 % ≤ C < 70 %; H315: 35 % ≤ C < 50 %; H318: 8 % ≤ C < 50 %; H319: 5 % ≤ C< 8 %; C ≥ 35 % [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][15]

Skin contact

Remove contaminated clothing. Rinse skin with soap and water (min. 15 minutes). Call a physician immediately. [1][2][15]

Eye contact

Rinse eyes with running water (min. 15 minutes). Remove contact lenses if possible. If irritation persists — consult an ophthalmologist. [1][2][15]

Ingestion

Do NOT induce vomiting (unless directed by a physician). Rinse mouth with water. Never give anything by mouth to an unconscious person. Emergency number: 112 (EU-wide). Contact the poison centre designated in your country (CLP Art. 45). [1][2][15]

Symptoms and effects

nausea, vomiting, diarrhoea; cough, shortness of breath, headache, dizziness; skin redness and irritation. [3][9]

Notes for physician

Requires verification

Emergency numbers: Emergency: 112 (EU-wide). Poison centre: as designated in the country of placing on the market (CLP Art. 45).

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5. Firefighting measures

Suitable extinguishing media	Water in LARGE quantities (cooling). Water mist.
Unsuitable extinguishing media	CO2 and dry powder (ineffective for an oxidiser)
Specific hazards	O2 (accelerates fire!) + H2O + heat
Advice for firefighters	Use self-contained breathing apparatus (SCBA). Full protective suit.
Special remarks	H2O2 is an OXIDISER, not a fuel. Catalytic decomposition by Mn, Fe, Cu, Cr.
Flash point note	Not applicable — non-flammable substance, strong oxidiser

6. Accidental release measures

Personal precautions	Use personal protective equipment (see Section 8). Avoid breathing vapours. [1][2][15]
Environmental precautions	Prevent entry into sewers, groundwater and surface water. [1][2][15]
Methods for containment and cleaning up	1. Ventilate (>30 min) — fume extraction, open windows 2. PPE: nitrile >0.4mm + goggles + P2 half-mask 3. DILUTE with water 10:1 (reduces concentration to <5%) 4. Cover with VERMICULITE (NOT paper — risk of ignition with concentrated H2O2) 5. Collect mechanically into a plastic container (HDPE, NOT metal!) 6. After neutralisation: diluted solutions <3% may be discharged to the sewer 7. Wash the area with water, monitor pH
Related sections	8; 13
Large spill	1. EVACUATE 10 m radius (oxidizer + pungent odour) 2. NO smoking, no ignition sources, remove organic materials (paper, wood, textiles) 3. FULL PPE: Tychem F suit, full-face respirator A2P3, butyl gloves 4. DILUTE with copious water (water mist from a distance — beware of splashing) 5. Contain with vermiculite/perlite barriers 6. DO NOT use metal (Fe, Cu, Mn catalyse decomposition → spontaneous ignition!) 7. Collect with a plastic vacuum pump into a 200 L HDPE drum 8. Call emergency services + WIOŚ (environmental protection inspectorate) if >5 L of concentrate (>30%)
Absorbent	vermiculite (NOT paper/cellulose!)
HAZMAT response required	Yes
Required PPE	Gloves: nitrile (>0.4mm) or butyl rubber; Safety goggles: Yes; Respiratory protection: half mask P2; Protective clothing: chemical resistant apron; Face shield: Yes

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][15]
Storage temperature	Store at temperature below 30°C. [1][2][15]
Humidity	Store in a dry place (<60% RH). [1][2][15]
Light	Protect from direct sunlight. [1][2][15]

Do not seal tightly — risk of pressure build-up (O2 release). Store away from combustible materials and reducing agents. HDPE (polyethylene) containers. Do not use metal or glass.

Incompatible materials	Strong oxidizers, strong acids, strong bases. [16]

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8. Exposure controls/personal protection

8.1 Control parameters

OEL — NDS (Poland)	NDS = 1 mg/m³ (TWA) · NDSCh = 2 mg/m³ (STEL) — Rozp. MRiPS Dz.U.2024 poz.1017 [23]
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.
GESTIS MAK (DE)	GESTIS MAK (DE): 0.5 ppm / 0.71 mg/m³ — GESTIS/DGUV Deutschland MAK-Wert
DNEL	No data available.
PNEC	No data available.

8.2 Personal protective equipment (PPE) [5][6][17]



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9. Physical and chemical properties

Property (item 9.1)	Value	Source
Physical state	ciecz	
Colour	bezbarwna	
Odour	lekko ostry, charakterystyczny	
pH (1% aqueous solution)	No data available.	
Melting point	-0.43°C (100% — CRC Handbook of Chemistry and Physics, 95th ed. (2014), p. 4-67) [8] [7]	
Boiling point	150.2°C (100% — CRC Handbook of Chemistry and Physics, 95th ed. (2014), p. 4-67) [7]	
Flash point	Not applicable — non-flammable substance, strong oxidiser [8]	
Flammability	No data available.	
Lower and upper explosion limit	No data available.	

Property (item 9.1)	Value	Source
Density (20°C)	1.44 g/cm³ (25 °C; 30% solution: approx. 1.11 – CRC Handbook of Chemistry and Physics, 95th ed. (2014), p. 4-67; The Merck Index, 15th ed. (2013), p. 889) [7]	*Curated list (commercial form)*
Vapour pressure	0.263 kPa (1.97 mmHg, 25 °C) – Daubert & Danner, Physical and Thermodynamic Properties of Pure Chemicals (1989) [7]	
Relative vapour density	1.17 [22]	
Dynamic viscosity	1.249 mPa·s [7]	
Kinematic viscosity	No data available.	
Refractive index nD^{20}	1.4061 (experimental data) [7]	
Auto-ignition temperature	No data available.	
Decomposition temperature	No data available.	
Surface Tension	80.4 mN/m [8]	
Dissociation constant (pKa)	pKa = 11.65 [8]	
Water solubility	Miscible with water in all proportions. [8]	
Particle characteristics	Not applicable (REACH 9.1(r))	
Partition coefficient n-octanol/water (log value)	-0.9 [8]	
Molar mass	34.015 g/mol [7]	
Molecular formula	H_2O_2 [7]	
Lipinski rule (RO5)	PASS	

Where a property above reads "No data available", no measured value was found in the public sources consulted for this substance. The property has not been determined by MolGod.org and no value is inferred. "Not applicable" means the property has no meaning for this substance in the form supplied.

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10. Stability and reactivity

Reactivity	Reactive according to classification (H271) — see hazardous reactions. [16]
Chemical stability	May undergo violent catalytic decomposition on contact with heavy metals (Mn, Fe, Cu, Cr) or contaminants. [16]
Hazardous reactions	Catalytic decomposition may proceed violently, releasing large amounts of oxygen, which accelerates the fire of surrounding combustible materials. H2O2 is an OXIDISER, not a fuel. Catalytic decomposition by Mn, Fe, Cu, Cr. [16]
Conditions to avoid	Temperature >50°C, UV light, heavy metals, organic contaminants. Decomposition releasing oxygen (O_2) and heat. [16]
Incompatible materials	Strong oxidizers, strong acids, strong bases.
Decomposition products	O2 (accelerates fire!) + H2O + heat [16]

11. Toxicological information

LD50 (oral)	No data available.
LD50 (dermal)	No data available.
LC50 (inhalation)	No data available.

Skin irritation	Category 1 (H314) — corrosive; sub-category (1A/1B/1C) per CLP Annex VI entry. [3][9]
Eye irritation	Serious eye damage — covered by the corrosive classification (H314; CLP Annex I 3.3.2.1). [3][9]
Sensitisation	Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) [3][9]
Mutagenicity	Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) [3][9]
Carcinogenicity	No harmonised CLP classification as carcinogenic; for carcinogenicity assessment see the IARC classification below. [20]
IARC classification (carcinogenicity)	IARC Group 3 — not classifiable as to its carcinogenicity to humans. [local snapshot — not verified against the current IARC list] [20]
Reproductive toxicity	Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) [3][9]
STOT — single exposure	Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) [3][9]
STOT — repeated exposure	Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) [3][9]
Aspiration hazard	Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) [3][9]

12. Ecological information

Aquatic toxicity	LC_{50} (fish, 96h): 16.4 mg/L (Pimephales promelas, 96h). EC_{50} (Daphnia): 7.7 mg/L (Daphnia magna, 48h). IC_{50} (algae): 1.38 mg/L (Selenastrum capricornutum, 72h)
Persistence / biodegradability	Rapidly decomposes in water to H2O + O2 (catalytic decomposition on MnO2/Fe). Does not accumulate in the environment.
Bioaccumulative potential	log Kow = -0.9 [8]. Low bioaccumulation potential (log Kow < 4.5 — PBT/vPvB screening criterion per ECHA Guidance R.11). [18][19] BCF: Does not bioaccumulate (BCF < 1).
Mobility in soil	No data available.
PBT/vPvB assessment	Does not meet the PBT/vPvB criteria (inorganic substance, rapidly mineralises)
Endocrine disrupting properties	Reported effects on the endocrine system in animal studies (ecotoxicological data, US EPA ECOTOX; not a regulatory ED classification under 2018/605). Reported endocrine effects in aquatic organisms (ecotoxicological data, US EPA ECOTOX; not a regulatory ED classification under 2018/605). [21]

13. Disposal considerations

Disposal method	Dilute to <3% and oxidise organic matter in the presence of a catalyst (FeSO4); neutralisation on MnO2 → releases O2 + H2O. May be discharged into the sewer ONLY after complete decomposition (KI-paper peroxide test = negative).
Waste code (EWC)	16 05 06* — Laboratory and analytical chemicals (e.g. chemical reagents) containing hazardous substances [14]
Packaging	Cleaned packaging may be recycled. Contaminated packaging must be treated as hazardous waste.
Neutralization protocol	1L 30% H2O2 + 100g MnO2 = 11L oxygen + 1L water. Exothermic reaction (cool!).
Licensed waste contractors (PL)	Ekoindustrol Sp. z o.o. (BDO 000026283); Remondis Polska; PreZero Polska
BDO required	Yes

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14. Transport information



Class 5.1 — Oxidising substances



Class 8 — Corrosive substances

UN number	UN 2014 [11]
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION (with 20% to 60% hydrogen peroxide) [11]
Transport hazard class	5.1 (Oxidizing substances) [11]
Packing Group	II [11]
Environmental hazard	The aquatic hazard classes are not covered by the harmonised entry in Annex VI. Data in Section 12 indicate a value below the classification threshold — supplier self-classification (Article 4(3) CLP) and verification per ADR 2.2.9 / IMDG are required. Do not assume that marking as a marine pollutant is not required. [3]
Special precautions	Handle as dangerous goods according to the assigned class (ADR/IMDG/IATA); apply the precautions appropriate to that class.
CN/HS code	2847 00 00 (Nadtlenek wodoru) [13]
Notes	Transport classification per ADR / UN Model Regulations (UN number, class and packing group above). Verify the ADR/IMDG/IATA edition in force on the date of shipment. [11]
Subsidiary hazard (class)	8 (Corrosive)
EmS code (IMDG)	F-H, S-Q [12]
Tunnel restriction code (ADR)	(E)
Limited quantities (LQ)	1 L (LQ22)
Marine pollutant	No
Environmentally hazardous (mark: fish and tree)	Requires verification

15. Regulatory information

SVHC status	SVHC status not verified against the available dataset — check the current ECHA Candidate List; do not assume absence. [1]
REACH Annex XIV	Not verified against the ECHA Authorisation List — check REACH Annex XIV. [1]
REACH Annex XVII	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. [1]
EC number type	EINECS
REACH registration number	01-2119485845-22-XXXX (the last part of the number is confidential — the full number is held by the registrant; verify with ECHA)
Index number (CLP Annex VI)	008-003-00-9
Harmonised classification	Tak (CLP Annex VI)
IARC classification (carcinogenicity)	Group 3 (not classifiable as carcinogenic to humans, IARC Monograph Vol. 71)
Iarc url	https://monographs.iarc.who.int/wp-content/uploads/2018/06/mono71-9.pdf
OEL — Journal of Laws (Poland)	Dz.U. 2024 poz. 1017 (NDS 1.4 mg/m³, NDSCh 4 mg/m³)
Svhc status	No
Biocide pt	PT2/PT4/PT11/PT12 (BPR 528/2012)
Us tsca	Active on TSCA Inventory

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16. Other information

Substance type: oxidizer

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 03.11.2026 were omitted as future (not yet applicable).

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

Scientific citations (10)

et al.. *Defective three-dimensional covalent organic frameworks for enhanced hydrogen peroxide photosynthesis and organic transformation.*. (2026). DOI: 10.1038/s41467-026-71137-0

et al.. *Nonenzymatic Electrochemical Sensors for Hydrogen Peroxide Using a Cu-TCPP/rGO Nanocomposite.*. (2026). DOI: 10.1021/acsomega.6c01882

et al.. *Catalyst Engineering for Photocatalytic Hydrogen Peroxide Production: State-of-the-Art Progress and Future Perspectives.*. (2026). DOI: 10.3390/nano16080466

et al.. *Geometric and Electronic Engineering of Hydrogen Peroxide Production Electrocatalysts.*. (2026). DOI: 10.1007/s40820-026-02189-6

et al.. *Deodorization of Tuna Peptides by Hydrogen Peroxide Oxidation.*. (2026). DOI: 10.3390/molecules31040726

Full text of H statements

H271	May cause fire or explosion; strong oxidiser
H332	Harmful if inhaled
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage

Full text of P statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P220	Keep away from clothing and other combustible materials
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+P330+P331	IF SWALLOWED: Rinse mouth; Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing; Rinse skin with water or shower
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes; Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P370+P378	In case of fire: Use appropriate media to extinguish
P405	Store locked up
P501	Dispose of contents/container to an approved waste collection point

Abbreviations

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

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

Version history

v21 (03.11.2026)	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: 2026-11-03.

[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: 2026-11-03.

[3] EP and Council. Reg.(EC) 1272/2008 (CLP) + ATP 23. OJ EU L 353/2008. (2026-07-07) URL: https://eur-lex.europa.eu/eli/reg/2008/1272/oj Accessed: 2026-11-03.

[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: 2026-11-03.

[5] ISO. ISO 7010:2019 — Graphical symbols. Safety signs. URL: https://www.iso.org/standard/72424.html Accessed: 2026-11-03.

[6] ISO. ISO 3864-1:2011 — Safety colours and safety signs. URL: https://www.iso.org/standard/51021.html Accessed: 2026-11-03.

[7] PubChem. National Center for Biotechnology Information (NIH/NLM), chemical compound database. URL: https://pubchem.ncbi.nlm.nih.gov/compound/784

[8] NIST. Chemistry WebBook, SRD 69. National Institute of Standards and Technology. URL: https://webbook.nist.gov/cgi/cbook.cgi?ID=7722-84-1

[9] ECHA. European Chemicals Agency — harmonised classification inventory (CLP Annex VI). URL: https://echa.europa.eu

[10] ECHA. REACH Registration Dossier (registered substance, acute toxicity study record). Helsinki: European Chemicals Agency. URL: https://echa.europa.eu/registration-dossier

[11] UNECE. European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), 2025 edition (ECE/TRANS/352). Geneva: United Nations. URL: https://unece.org/adr

[12] IMO. International Maritime Dangerous Goods (IMDG) Code, 2024 ed. (Amendment 42-24, Res. MSC.556(108)). London: International Maritime Organization. URL: https://www.imo.org

[13] European Commission. Combined Nomenclature (Council Regulation (EEC) No 2658/87). Chapter 29. OJ EU L 256. URL: https://eur-lex.europa.eu/eli/reg/1987/2658/oj

[14] 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

[15] 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

[16] Urben, P.G., ed. Bretherick's Handbook of Reactive Chemical Hazards. 8th ed. Oxford: Academic Press.

[17] CEN. Personal protective equipment standards (EN ISO 374-1, EN 166, EN 149, EN 14387, EN ISO 20345). Brussels: European Committee for Standardization.

[18] 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

[19] 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

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[20] IARC. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: International Agency for Research on Cancer. URL: https://monographs.iarc.who.int

[21] U.S. EPA. ECOTOX Knowledgebase. Washington, DC: U.S. Environmental Protection Agency. URL: https://cfpub.epa.gov/ecotox/

[22] MOL-GOD. Value obtained by calculation from the molecular formula/molecular weight (the specific quantity and its formula are indicated at the respective field). Calculated value, not an experimental measurement. URL: https://www.nist.gov/pml/atomic-weights-and-isotopic-compositions-relative-atomic-masses

[23] 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: 2026-11-03.

External links

NIST: https://webbook.nist.gov/cgi/cbook.cgi?ID=7722-84-1

ChEMBL: https://www.ebi.ac.uk/chembl/compound_report_card/CHEMBL71595

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 — platform for automated safety data sheets (SDS).
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