

# Safety Data Sheet

#49009169 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

| PRODUCT         | CAS NUMBER | FORMULA | VERSION | REVISION DATE |
|-----------------|------------|---------|---------|---------------|
| Sodium peroxide | 1313-60-6  | Na2O2   | 10      | 31 Jul 2026   |

## SECTION 1

### Identification

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product name                   | Sodium peroxide                                                                                                                  |
| CAS number                     | 1313-60-6                                                                                                                        |
| Chemical formula               | Na2O2                                                                                                                            |
| Molecular weight               | 77.98                                                                                                                            |
| SMILES                         | [O-][O-].[Na+].[Na+]                                                                                                             |
| EC / EINECS number             | 215-209-4                                                                                                                        |
| Recommended use & restrictions | For research use only. Not for human or animal use                                                                               |
| Emergency telephone            | <b>0344 892 0111</b> — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE)) |

## SECTION 2

## Hazard identification

**DANGER****CODE                      HAZARD STATEMENT****H271**                      May cause fire or explosion; strong oxidizer**H290**                      May be corrosive to metals**H314 (sub  
cat. 1A)**                      Causes severe skin burns and eye damage**CODE                      PRECAUTIONARY STATEMENT****P210**                      Keep away from heat/sparks/open flames/hot surfaces - No smoking**P220**                      Keep/Store away from clothing/combustible materials**P260**                      Do not breathe dust/fume/gas/mist/vapours/spray**P280**                      Wear protective gloves/protective clothing/eye protection/face protection**P283**                      Wear fire/flammable resistant/retardant clothing**P306+P360**                      IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes

**Other hazards (e.g. PBT / vPvB, not classified)**

Does not contain components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Does not contain components considered to have endocrine-disrupting properties.

Does not meet PBT or vPvB criteria under REACH Annex XIII.

## SECTION 3

## Composition / information on ingredients

**Purity / concentration**                      Sodium peroxide (CAS 1313-60-6)- H271, H314A**Impurities / stabilising  
additives**                      None

#### SECTION 4

### First-aid measures

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

#### SECTION 5

### Fire-fighting measures

|                                       |                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Sand. Dry chemical / dry powder                                                                                                                                                                                                                                                                                                 |
| <b>Unsuitable extinguishing media</b> | Water. Carbon dioxide. Foam                                                                                                                                                                                                                                                                                                     |
| <b>Special hazards</b>                | Sodium oxides<br>Not combustible.<br>Caution! in contact with water product releases:<br>Hydrogen peroxide<br>Has a fire-promoting effect due to release of oxygen.<br>Ambient fire may liberate hazardous vapours                                                                                                              |
| <b>Advice for firefighters</b>        | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.<br>Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. |

#### SECTION 6

### Accidental release measures

|                                           |                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions &amp; PPE</b>     | Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8. |
| <b>Environmental precautions</b>          | Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.                |
| <b>Containment &amp; clean-up methods</b> | Collect spillage with shovel, broom or the like.                                                                        |

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

## SECTION 7

### Handling & storage

|                                                        |                                                                                                                                               |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage temperature</b>                             | Ambient                                                                                                                                       |
| <b>Precautions for safe handling</b>                   | Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |
| <b>Conditions for safe storage (incompatibilities)</b> | Reacts violently with water. Store at ambient temperature. Store in a dry place. Store in a closed container. No metal containers.            |

## SECTION 8

### Exposure controls / personal protection

|                                                 |                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational exposure limits (OEL / WEL)</b> | <i>Not applicable</i>                                                                                                                                                                                                                                                                                                       |
| <b>DNEC/PNEC data</b>                           | <i>Not applicable</i>                                                                                                                                                                                                                                                                                                       |
| <b>Eye / face protection</b>                    | Safety glasses<br>Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.                                                                                                                                                                                                  |
| <b>Skin / hand protection</b>                   | Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins.                                                                                                                                                                                                                                                               |
| <b>Respiratory protection</b>                   | Full-face respirator<br>Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387. |

## SECTION 9

**Physical & chemical properties**

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Density (g/mL)                     | 2.805 g/mL<br>DERIVED FROM: LITERATURE   |
| Flash point                        | <i>Not applicable</i>                    |
| Acidity                            | Base<br>DERIVED FROM: LITERATURE         |
| Appearance / physical state        | Solid<br>DERIVED FROM: LITERATURE        |
| Colour                             | Light yellow<br>DERIVED FROM: LITERATURE |
| Odour                              | Not known<br>DERIVED FROM: LITERATURE    |
| Melting / freezing point           | 460°C<br>DERIVED FROM: LITERATURE        |
| Boiling point                      | 657°C<br>DERIVED FROM: LITERATURE        |
| Solubility (water)                 | <i>No data available</i>                 |
| pH                                 | 12.8<br>DERIVED FROM: LITERATURE         |
| Vapour pressure                    | -<br>DERIVED FROM: LITERATURE            |
| Partition coefficient (log Pow)    | -<br>DERIVED FROM: LITERATURE            |
| Auto-ignition / decomposition temp | -<br>DERIVED FROM: LITERATURE            |

## Stability & reactivity

|                                        |                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical stability / reactivity</b> | Stable under the prescribed storage conditions                                                                                                                                                                                                                                                                                                                                                |
|                                        | Risk of ignition or formation of inflammable gases or vapours with:                                                                                                                                                                                                                                                                                                                           |
|                                        | Alcohols<br>Benzene<br>combustible substances<br>acetic acid<br>carbon disulfide<br>hydrogen sulphide<br>anilines<br>Powdered metals<br>Ether<br>ethanol<br>Methanol<br>Iron<br>Water<br>Tin<br>Risk of explosion with:                                                                                                                                                                       |
|                                        | Organic Substances<br>Metals<br>sulfur<br>phosphorus<br>performic acid<br>sodium thiosulphate<br>metallic chlorides<br>carbon<br>glycerol<br>Acetic anhydride<br>carbides<br>Boron<br>arsenic<br>antimony<br>ammonium compounds<br>powdered aluminium<br>sugars<br>charcoal<br>powdered magnesium<br>Water with organic Substances<br>carbon dioxide with Metals<br>Exothermic reaction with: |
|                                        | Aldehydes<br>acids<br>nitrides<br>Sulfur dichloride                                                                                                                                                                                                                                                                                                                                           |

|                            |                |
|----------------------------|----------------|
| <b>Conditions to avoid</b> | Avoid moisture |
|----------------------------|----------------|

|                               |        |
|-------------------------------|--------|
| <b>Incompatible materials</b> | Water. |
|-------------------------------|--------|

|                                         |               |
|-----------------------------------------|---------------|
| <b>Hazardous decomposition products</b> | See section 5 |
|-----------------------------------------|---------------|

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## SECTION 11

### Toxicological information

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Acute toxicity (LD50 / LC50)</b> | <i>Not applicable</i> |
|-------------------------------------|-----------------------|

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| <b>Skin corrosion / irritation</b> | Causes severe skin burns and eye damage |
|------------------------------------|-----------------------------------------|

|                                   |                       |
|-----------------------------------|-----------------------|
| <b>Eye corrosion / irritation</b> | <i>Not applicable</i> |
|-----------------------------------|-----------------------|

|                                         |                       |
|-----------------------------------------|-----------------------|
| <b>Respiratory / skin sensitisation</b> | <i>Not applicable</i> |
|-----------------------------------------|-----------------------|

|                        |                       |
|------------------------|-----------------------|
| <b>Carcinogenicity</b> | <i>Not applicable</i> |
|------------------------|-----------------------|

|                     |                       |
|---------------------|-----------------------|
| <b>Mutagenicity</b> | <i>Not applicable</i> |
|---------------------|-----------------------|

|                              |                       |
|------------------------------|-----------------------|
| <b>Reproductive toxicity</b> | <i>Not applicable</i> |
|------------------------------|-----------------------|

|                                          |                       |
|------------------------------------------|-----------------------|
| <b>STOT (single / repeated exposure)</b> | <i>Not applicable</i> |
|------------------------------------------|-----------------------|

|                          |                       |
|--------------------------|-----------------------|
| <b>Aspiration hazard</b> | <i>Not applicable</i> |
|--------------------------|-----------------------|

|                             |                       |
|-----------------------------|-----------------------|
| <b>Endocrine disruptors</b> | <i>Not applicable</i> |
|-----------------------------|-----------------------|

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## SECTION 12

### Ecological information

|                         |                       |
|-------------------------|-----------------------|
| <b>Aquatic toxicity</b> | <i>Not applicable</i> |
|-------------------------|-----------------------|

|                                        |                       |
|----------------------------------------|-----------------------|
| <b>Persistence &amp; degradability</b> | <i>Not applicable</i> |
|----------------------------------------|-----------------------|

|                                  |                       |
|----------------------------------|-----------------------|
| <b>Bioaccumulative potential</b> | <i>Not applicable</i> |
|----------------------------------|-----------------------|

|                         |                       |
|-------------------------|-----------------------|
| <b>Mobility in soil</b> | <i>Not applicable</i> |
|-------------------------|-----------------------|

|                              |                       |
|------------------------------|-----------------------|
| <b>PBT / vPvB assessment</b> | <i>Not applicable</i> |
|------------------------------|-----------------------|

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## SECTION 13

### Disposal considerations

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

## SECTION 14

## Transport information

|                              |                                                                       |
|------------------------------|-----------------------------------------------------------------------|
| UN number                    | UN1504                                                                |
| Proper shipping name         | SODIUM PEROXIDE                                                       |
| Class                        | 5.1                                                                   |
| Packing group                | I                                                                     |
| Transport category           | 1                                                                     |
| Tunnel code                  | (E)                                                                   |
| Packing instruction (ADR)    | P503                                                                  |
| Packing instruction (IMDG)   | P503                                                                  |
| Environmental hazards        | <i>No data available</i>                                              |
| Special precautions for user | Handle in accordance with good industrial hygiene and safety practice |



## SECTION 15

## Regulatory information

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

## SECTION 16

## Other information

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| Revision notes / other information | Harmonised Entry: CLP00<br>Index No. 011-003-00-1 |
|------------------------------------|---------------------------------------------------|

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