acc. to Safe Work Australia - Code of Practice



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Sodium periodate ≥99,8%, p.a., ACS

article number: **2603** Version: **GHS 3.0 en** Replaces version of: 2022-04-20 Version: (GHS 2)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Identification of the substance

Article number

CAS number

Sodium periodate ≥99,8%, p.a., ACS

2603

7790-28-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

| Name | Street | Postal code/city | Telephone | Website |
|--|-----------------|-------------------------|-----------|---------|
| NSW Poisons Information Centre Childrens Hospital | Hawkesbury Road | 2145 West- mead, NSW | 131126 | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Cat- egory | Hazard class and category | Hazard statement |
|---------|-----------------------------------|---------------|---------------------------|---------------------|
| 2.14 | Oxidising solid | 1 | Ox. Sol. 1 | H271 |
| 3.2 | Skin corrosion/irritation | 1C | Skin Corr. 1C | H314 |
| 3.3 | Serious eye damage/eye irritation | 1 | Eye Dam. 1 | H318 |

acc. to Safe Work Australia - Code of Practice



Sodium periodate ≥99,8%, p.a., ACS

article number: 2603

| Section | Hazard class | Cat- egory | Hazard class and category | Hazard statement |
|---------|--|---------------|---------------------------|---------------------|
| 3.9 | Specific target organ toxicity - repeated exposure | 1 | STOT RE 1 | H372 |

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling

Signal word Danger

Pictograms



Hazard statements

| H271 | May cause fire or explosion; strong oxidiser |
|------|---|
| H314 | Causes severe skin burns and eye damage |
| H372 | Causes damage to organs (thyroid gland) through prolonged or repeated ex- |
| | posure |

Precautionary statements

Precautionary statements - prevention

| P210 | Keep away from heat/sparks/open flames/hot surfaces No smoking |
|------|--|
| P260 | Do not breathe dusts or mists |
| P280 | Wear eve protection/face protection |

Precautionary statements - response

| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower |
|-----------------------------|---|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P370+P378 P371+P380+P375 | In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion |

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS

article number: 2603

3.1

SECTION 3: Composition/information on ingredients

| Substances | |
|-------------------|-------------------------------------|
| Name of substance | Sodium periodate |
| Molecular formula | NaIO₄ |
| Molar mass | 213.9 ^g / _{mol} |
| CAS No | 7790-28-5 |

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

4.2 Most important symptoms and effects, both acute and delayed

Corrosion, Risk of blindness, Gastric perforation, Risk of serious damage to eyes, Dyspnoea, Irritation, Cough

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder



acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS

article number: 2603

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Explosive when mixed with combustible material. Oxidising property. Non-combustible.

Hazardous combustion products

Hydrogen iodide (HI)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits. Keep away from combustible material.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities Store in a dry place.

Store in a dry place

acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS



article number: 2603

Incompatible substances or mixtures

Observe hints for combined storage. Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

Consideration of other advice:

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Coun try | Name of agent | CAS No | Identifi- er | TWA [mg/ m³] | STEL [mg/ m³] | Ceil- ing-C [mg/ m³] | Nota- tion | Source |
|-------------|----------------|--------|-----------------|--------------------|---------------------|-------------------------------|---------------|--------|
| AU | nuisance dusts | | WES | 10 | | | i | WES |

Notation

Ceiling value is a limit value above which exposure should not occur Inhalable fraction Ceiling-C

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 STEL

TWA hours time-weighted average (unless otherwise specified)

Human health values

| elevant DNELs and other threshold levels | | | | | |
|--|-----------------------|------------------------------------|-------------------|----------------------------|--|
| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time | |
| DNEL | 0.1 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects | |
| DNEL | 0.3 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects | |
| DNEL | 0.06 mg/kg bw/ day | human, dermal | worker (industry) | chronic - systemic effects | |
| DNEL | 0.2 mg/kg bw/ day | human, dermal | worker (industry) | acute - systemic effects | |

Environmental values

| Relevant PNECs and other threshold levels | | | | | | |
|---|------------------------------------|-------------------|--------------------------------|------------------------------|--|--|
| End- point | Threshold level | Organism | Environmental com- partment | Exposure time | | |
| PNEC | 0.002 ^{mg} / _l | aquatic organisms | water | intermittent release | | |
| PNEC | 0 ^{mg} / _l | aquatic organisms | freshwater | short-term (single instance) | | |

acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS



article number: 2603

| Relevant PNECs and other threshold levels | | | | | | | |
|---|-------------------------------------|-----------------------|---------------------------------|------------------------------|--|--|--|
| End- point | Threshold level | Organism | Environmental com- partment | Exposure time | | | |
| PNEC | 0 ^{mg} / _l | aquatic organisms | marine water | short-term (single instance) | | | |
| PNEC | 2.2 ^{mg} / _l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) | | | |
| PNEC | 0.001 ^{mg} / _{kg} | aquatic organisms | freshwater sediment | short-term (single instance) | | | |
| PNEC | 0 ^{mg} / _{kg} | aquatic organisms | marine sediment | short-term (single instance) | | | |
| PNEC | 0 ^{mg} / _{kg} | terrestrial organisms | soil | short-term (single instance) | | | |

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection. Wear face protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

material thickness

0,4 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS

article number: 2603

Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state | solid |
|--|--|
| Form | powder, crystalline |
| Colour | white - whitish yellow |
| Odour | odourless |
| Melting point/freezing point | 270 – 300 °C |
| Boiling point or initial boiling point and boiling range | not determined |
| Flammability | non-combustible |
| Lower and upper explosion limit | not determined |
| Flash point | not applicable |
| Auto-ignition temperature | 262 °C (ECHA) |
| Decomposition temperature | 270 °C (ECHA) |
| pH (value) | 3.5 – 5 (in aqueous solution: 107 ^g / _l , 25 °C) |
| Kinematic viscosity | not relevant |
| Solubility(ies) | |
| Water solubility | ~ 107 ^g / _l at 25 °C |
| Partition coefficient | |
| Partition coefficient n-octanol/water (log value): | not relevant (inorganic) |
| | |
| Vapour pressure | not determined |
| Density and/or relative density | |
| Density | 3.87 ^g / _{cm³} at 20 °C |
| Relative vapour density | Information on this property is not available. |
| Bulk density | 2,400 – 2,900 ^{kg} / _{m³} |
| | |



acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS

article number: 2603



SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

It's a reactive substance. Oxidising property.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: Combustible materials, Reducing agents, Acids, Ammonium compounds, Perchlorates, Metal powder, Magnesium

10.4 Conditions to avoid

Keep away from heat. UV-radiation/sunlight. Decompositon takes place from temperatures above: 270 °C. Keep away from heat.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS

article number: 2603

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Causes damage to organs (thyroid gland) through prolonged or repeated exposure.

| Hazard category | Target organ | Exposure route |
|-----------------|---------------|----------------|
| 1 | thyroid gland | if exposed |

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

• If in eyes

causes burns, Causes serious eye damage, risk of blindness

• If inhaled

cough, irritant effects, Dyspnoea

• If on skin

causes severe burns, causes poorly healing wounds

• Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life.

| Aquatic toxicity (acute) | | | | |
|--------------------------|------------------------------------|-----------------------|--------|------------------|
| Endpoint | Value | Species | Source | Exposure time |
| LC50 | >0.17 ^{mg} / _l | fish | ECHA | 96 h |
| EC50 | 0.18 ^{mg} / _l | aquatic invertebrates | ECHA | 48 h |
| ErC50 | 1.1 ^{mg} / _l | algae | ECHA | 72 h |



acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS

article number: 2603

| Aquatic toxicity (chronic) | | | | |
|----------------------------|----------------------------------|----------------|--------|------------------|
| Endpoint | Value | Species | Source | Exposure time |
| EC50 | 220 ^{mg} / _l | microorganisms | ECHA | 3 h |

- **12.2 Persistence and degradability** Data are not available.
- **12.3 Bioaccumulative potential** Data are not available.
- 12.4 Mobility in soil

Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

Relevant provisions relating to waste(Basel Convention)

Properties of waste which render it hazardous

H5.1 Oxidizing

H11 Toxic (Delayed or chronic)

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.



acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS

article number: 2603

® **ROTH**

| SEC | SECTION 14: Transport information | | | | |
|------|--|---|--|--|--|
| 14.1 | UN number | | | | |
| | UN RTDG | UN 3085 | | | |
| | IMDG-Code | UN 3085 | | | |
| | ICAO-TI | UN 3085 | | | |
| 14.2 | UN proper shipping name | | | | |
| | UN RTDG | OXIDIZING SOLID, CORROSIVE, N.O.S. | | | |
| | IMDG-Code | OXIDIZING SOLID, CORROSIVE, N.O.S. | | | |
| | ICAO-TI | Oxidizing solid, corrosive, n.o.s. | | | |
| | Technical name | Sodium periodate | | | |
| 14.3 | Transport hazard class(es) | | | | |
| | UN RTDG | 5.1 (8) | | | |
| | IMDG-Code | 5.1 (8) | | | |
| | ICAO-TI | 5.1 (8) | | | |
| 14.4 | Packing group | | | | |
| | UN RTDG | Ι | | | |
| | IMDG-Code | I | | | |
| | ICAO-TI | Ι | | | |
| 14.5 | Environmental hazards | hazardous to the aquatic environment | | | |
| 14.6 | Special precautions for user | | | | |
| | There is no additional information. | | | | |
| 14.7 | | | | | |
| | The cargo is not intended to be carried in bulk. | | | | |
| 14.8 | Information for each of the UN Model Regulati | ons | | | |
| | Transport informationNational regulationsAdd | litional information(UN RTDG) | | | |
| | UN number | 3085 | | | |
| | Class | 5.1 | | | |
| | Subsidiary risk(s) | 8 | | | |
| | Environmental hazards | Yes Hazardous to the aquatic environment | | | |
| | Packing group | Ι | | | |
| | Danger label(s) | 5.1+8 Fish and tree | | | |
| | | | | | |



acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS

article number: 2603



| Special provisions (SP) | 274 UN RTDG |
|--|--|
| Excepted quantities (EQ) | E0 UN RTDG |
| Limited quantities (LQ) | 0 UN RTDG |
| Emergency Action Code | 1W |
| International Maritime Dangerous Goods C | ode (IMDG) - Additional information |
| Proper shipping name | OXIDIZING SOLID, CORROSIVE, N.O.S. |
| Particulars in the shipper's declaration | UN3085, OXIDIZING SOLID, CORROSIVE, N.O.S., (Sodium periodate), 5.1 (8), I, MARINE POLLUT- ANT |
| Marine pollutant | Yes (hazardous to the aquatic environment) |
| Danger label(s) | 5.1+8, "Fish and tree" |
| | |
| Special provisions (SP) | 274 |
| Excepted quantities (EQ) | EO |
| Limited quantities (LQ) | 0 |
| EmS | F-A, S-Q |
| Stowage category | D |
| International Civil Aviation Organization (I | CAO-IATA/DGR) - Additional information |
| Proper shipping name | Oxidizing solid, corrosive, n.o.s. |
| Particulars in the shipper's declaration | UN3085, Oxidizing solid, corrosive, n.o.s., (Sodi- um periodate), 5.1 (8), I |
| Environmental hazards | Yes (hazardous to the aquatic environment) |
| Danger label(s) | 5.1+8 |
| | |
| Special provisions (SP) | A3 |
| Excepted quantities (EQ) | EO |
| | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

National regulations(Australia)

Australian Inventory of Chemical Substances(AICS)

Substance is listed.

acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS



article number: 2603

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

| Country | Inventory | Status |
|---------|------------|------------------------------|
| AU | AIIC | substance is listed |
| CA | DSL | substance is listed |
| CN | IECSC | substance is listed |
| EU | ECSI | substance is listed |
| EU | REACH Reg. | substance is listed |
| JP | CSCL-ENCS | substance is listed |
| KR | KECI | substance is listed |
| MX | INSQ | substance is listed |
| NZ | NZIoC | substance is listed |
| PH | PICCS | substance is listed |
| TW | TCSI | substance is listed |
| US | TSCA | substance is listed (ACTIVE) |
| VN | NCI | substance is listed |

Legend

| AIIC CSCL-ENCS | Australian Inventory of Industrial Chemicals List of Existing and New Chemical Substances (CSCL-ENCS) |
|-------------------|--|
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| KECI | Korea Existing Chemicals Inventory |
| NCI | National Chemical Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|---------------------------|---|--------------------------|
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 14.8 | | Emergency Action Code: 1W | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS



article number: 2603

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------|--|
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ED | Endocrine disruptor |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| STEL | Short-term exposure limit |
| TWA | Time-weighted average |
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| vPvB | Very Persistent and very Bioaccumulative |
| WES | Safe Work Australia: Workplace exposure standards for airborne contaminants |

Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

acc. to Safe Work Australia - Code of Practice

Sodium periodate ≥99,8%, p.a., ACS



article number: 2603

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|---|
| H271 | May cause fire or explosion; strong oxidiser. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H372 | Causes damage to organs (thyroid gland) through prolonged or repeated exposure. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.