

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 983-99 Buffer Powder for Manganese Periodate Method

Revision date: 21.05.2015

Product code: 98399

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

### 1.1. Product identifier

983-99 Buffer Powder for Manganese Periodate Method

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

#### Use of the substance/mixture

Water analysis

### 1.3. Details of the supplier of the safety data sheet

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach.com  
Internet: www.de.hach.com  
Responsible Department: HACH LANGE Ltd.  
5, Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324  
e-Mail: info-uk@hach.com

HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info-ie@hach.com

### 1.4. Emergency telephone number:

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

Citric acid

di-Sodium hydrogen phosphate

Signal word: Warning

Pictograms:



#### Hazard statements

H315

Causes skin irritation.

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H319 Causes serious eye irritation.

#### Precautionary statements

P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362 Take off contaminated clothing.  
 P501 Dispose of contents/container to Disposal.

#### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

#### 2.3. Other hazards

no data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No    | Chemical name   |          |          | Quantity      |
|-----------|---|----------|----------|---------------|
|           | EC No   | Index No | REACH No |               |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP] |          |          |               |
| 7558-79-4 | di-Sodium hydrogen phosphate                                    |          |          | 45,0 - 55,0 % |
|           | 231-448-7   |          |          |               |
|           | Skin Irrit. 2, Eye Irrit. 2; H315 H319                          |          |          |               |
| 7757-82-6 | Sodium sulfate  |          |          | 30,0 - 40,0 % |
|           | 231-820-9   |          |          |               |
|           |   |          |          |               |
| 77-92-9   | Citric acid   |          |          | 15,0 - 25,0 % |
|           | 201-069-1   |          |          |               |
|           | Skin Irrit. 2, Eye Irrit. 2; H315 H319                          |          |          |               |

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Take off contaminated clothing and shoes immediately.  
 Show this safety data sheet to the doctor in attendance.

#### After inhalation

Move to fresh air.  
 If symptoms persist, call a physician.

#### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.  
 If skin irritation persists, call a physician.

#### After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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#### After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

irritant effects

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### Unsuitable extinguishing media

No Limit

#### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

#### 5.3. Advice for firefighters

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

In the event of fire, wear self-contained breathing apparatus.

#### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

13. Disposal considerations

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Avoid contact with skin and eyes. Do not breathe vapours/dust.

##### Advice on protection against fire and explosion

See also section 5

##### Further information on handling

Avoid contact with skin, eyes and clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

Keep at temperatures between 10 and 30 °C.

##### Hints on joint storage

Avoid contact with skin, eyes and clothing.

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#### Further information on storage conditions

no data available

#### 7.3. Specific end use(s)

no data available Reagent for analysis

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

None known.

#### 8.2. Exposure controls

##### Appropriate engineering controls

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Protective and hygiene measures

Wash hands before breaks and at the end of workday.

##### Eye/face protection

Safety glasses with side-shields

##### Hand protection

Use barrier skin cream.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Skin protection

Avoid contact with skin, eyes and clothing.

##### Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

##### Environmental exposure controls

Should not be released into the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                      |                    |
|----------------------|--------------------|
| Physical state:      | powder             |
| Colour:              | white              |
| Odour:               | odourless          |
| pH-Value (at 23 °C): | 6,35(1 % solution) |

##### Changes in the physical state

|  |                   |
|--|-------------------|
| Melting point:                           | 160 °C            |
| Initial boiling point and boiling range: | 65 °C             |
| Sublimation point:                       | no data available |
| Softening point:                         | no data available |
| Pour point:                              | no data available |
| :  | no data available |
| Flash point:                             | not applicable    |

##### Flammability

|        |                   |
|--------|-------------------|
| Solid: | no data available |
| Gas:   | no data available |

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#### Explosive properties

no data available

Lower explosion limits:

no data available

Upper explosion limits:

no data available

Ignition temperature:

no data available

#### Auto-ignition temperature

Solid:

no data available

Gas:

no data available

Decomposition temperature:

no data available

#### Oxidizing properties

no data available

Vapour pressure:

no data available

(at 20 °C)

Vapour pressure:

no data available

Density (at 20 °C):

2,30 g/cm<sup>3</sup>

Bulk density:

no data available

Water solubility:

soluble

(at 20 °C)

#### Solubility in other solvents

no data available

Partition coefficient:

no data available

Viscosity / dynamic:

no data available

Viscosity / kinematic:

no data available

Flow time:

no data available

Vapour density:

no data available

Evaporation rate:

no data available

Solvent separation test:

no data available

Solvent content:

no data available

#### 9.2. Other information

Solid content:

no data available

no data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

The product is chemically stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

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**Further information**

Stable under recommended storage conditions.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Toxicokinetics, metabolism and distribution**

No toxicology information is available.

**Acute toxicity**

No data is available on the product itself.

| CAS No    | Chemical name                |               |       |         |        |        |
|-----------|------------------------------|---------------|-------|---------|--------|--------|
|           | Exposure route               | Dose          |       | Species | Source | Method |
| 7558-79-4 | di-Sodium hydrogen phosphate |               |       |         |        |        |
|           | oral                         | LD50<br>mg/kg | 17000 | rat     |        |        |
| 7757-82-6 | Sodium sulfate               |               |       |         |        |        |
|           | oral                         | LD50<br>mg/kg | 5989  | mouse   |        |        |
| 77-92-9   | Citric acid                  |               |       |         |        |        |
|           | oral                         | LD50<br>mg/kg | 3000  | rat     | IUCLID |        |
|           | dermal                       | LD50<br>mg/kg | >2000 | rat     | IUCLID |        |

**Irritation and corrosivity**

May cause eye and skin irritation.

**Sensitising effects**

No known effect.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Contains no ingredient listed as a carcinogen

**STOT-single exposure**

No known effect.

**STOT-repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard**

No aspiration toxicity classification

**Specific effects in experiment on an animal**

No toxicology information is available.

**Additional information on tests**

None known.

**Practical experience**
**Observations relevant to classification**

None known.

**Other observations**

None known.

**Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 12: Ecological information**
**12.1. Toxicity**

No data is available on the product itself.

| CAS No    | Chemical name                |              |           |         |                                 |        |
|-----------|------------------------------|--------------|-----------|---------|---------------------------------|--------|
|           | Aquatic toxicity             | Dose         | [h]   [d] | Species | Source                          | Method |
| 7558-79-4 | di-Sodium hydrogen phosphate |              |           |         |                                 |        |
|           | Acute crustacea toxicity     | EC50<br>mg/l | 1089      | 48 h    | Daphnia magna<br>(Water flea)   |        |
| 7757-82-6 | Sodium sulfate               |              |           |         |                                 |        |
|           | Acute fish toxicity          | LC50         | 120 mg/l  | 96 h    | Gambusia affinis                | Merck  |
|           | Acute crustacea toxicity     | EC50<br>mg/l | 2564      | 48 h    |                                 |        |
| 77-92-9   | Citric acid                  |              |           |         |                                 |        |
|           | Acute fish toxicity          | LC50<br>mg/l | 440-760   | 96 h    | Leuciscus idus<br>(Golden orfe) |        |
|           | Acute crustacea toxicity     | EC50         | 160 mg/l  | 48 h    | Crustacea                       |        |

**12.2. Persistence and degradability**

No data is available on the product itself.

| CAS No  | Chemical name                   |          |   |        |  |
|---------|---------------------------------|----------|---|--------|--|
|         | Method                          | Value    | d | Source |  |
|         | Evaluation                      |          |   |        |  |
| 77-92-9 | Citric acid                     |          |   |        |  |
|         | OECD Test Guideline 302         | 98 %     | 2 | IUCLID |  |
|         | Biochemical Oxygen Demand (BOD) | 526 mg/g | 5 | IUCLID |  |

**12.3. Bioaccumulative potential**

no data available

**12.4. Mobility in soil**

no data available

**12.5. Results of PBT and vPvB assessment**

no data available

**12.6. Other adverse effects**

No known effect.

**Further information**

No known effect.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Advice on disposal**

In accordance with local and national regulations. Our local agencies will accept used cuvettes to ensure their proper disposal.

**Waste disposal number of waste from residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**Waste disposal number of used product**

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160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**Waste disposal number of contaminated packaging**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**Contaminated packaging**

Dispose of as unused product.

### SECTION 14: Transport information

**Land transport (ADR/RID)****Other applicable information (land transport)**

Not subject to transport regulations.

**Inland waterways transport (ADN)****Other applicable information (inland waterways transport)**

Not tested

**Marine transport (IMDG)****Other applicable information (marine transport)**

Not subject to transport regulations.

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

Not subject to transport regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

no data available

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not relevant

**Other applicable information**

Not relevant

### SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

Revision: 26.01.2015

Safety datasheet sections which have been updated: 1-16

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

**Changes**

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Safety datasheet sections which have been updated: 2

Revision: 26.01.2015

Safety datasheet sections which have been updated: 1-16

**Relevant H and EUH statements (number and full text)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

984-99 Sodium Periodate

CAS No: 7790-28-5

EC No: 232-197-6

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Water analysis

**1.3. Details of the supplier of the safety data sheet**

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach.com  
Internet: www.de.hach.com  
Responsible Department: HACH LANGE Ltd.  
5, Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324  
e-Mail: info-uk@hach.com

HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info-ie@hach.com

**1.4. Emergency telephone number:**

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Oxidising solid: Ox. Sol. 2

Acute toxicity: Acute Tox. 3

Hazard Statements:

May intensify fire; oxidiser.

Toxic if swallowed.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Sodium metaperiodate

Signal word: Danger

Pictograms:



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**Hazard statements**

H272 May intensify fire; oxidiser.  
H301 Toxic if swallowed.

**Precautionary statements**

P220 Keep/Store away from combustible materials.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P370+P378 In case of fire: Use dry sand to extinguish.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P330 Rinse mouth.

**Additional advice on labelling**

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

None known.

**SECTION 3: Composition/information on ingredients****3.1. Substances****Hazardous components**

| CAS No    | Chemical name   | Quantity |          |       |
|-----------|---|----------|----------|-------|
|           | EC No   | Index No | REACH No |       |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP] |          |          |       |
| 7790-28-5 | Sodium metaperiodate  |          |          | 100 % |
|           | 232-197-6   |          |          |       |
|           | Ox. Sol. 2, Acute Tox. 3; H272 H301                             |          |          |       |

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Show this safety data sheet to the doctor in attendance.  
Take off contaminated clothing and shoes immediately.

**After inhalation**

Move to fresh air.  
If symptoms persist, call a physician.  
If not breathing, give artificial respiration. Consult a physician.

**After contact with skin**

Take off all contaminated clothing immediately. Wash off immediately with plenty of water.  
Consult a physician.

**After contact with eyes**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Drink 1 or 2 glasses of water.  
Never give anything by mouth to an unconscious person.  
Consult a physician.

**4.2. Most important symptoms and effects, both acute and delayed**

Toxic if swallowed.

**4.3. Indication of any immediate medical attention and special treatment needed**

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Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water, Carbon dioxide (CO<sub>2</sub>), Alcohol-resistant foam Dry powder,  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.  
Do not breathe vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).  
Soak up with inert absorbent material.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 6.4. Reference to other sections

13. Disposal considerations

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes.  
Use only in well-ventilated areas. Do not breathe vapours/dust.  
Wash thoroughly after handling.  
Keep away from heat and sources of ignition.

#### Advice on protection against fire and explosion

See also section 5

#### Further information on handling

Observe label precautions.  
Avoid contact with skin, eyes and clothing.  
Avoid contact with eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.  
Sensitivity to light, hygroscopic

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#### Hints on joint storage

Keep away from combustible material.

#### Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

#### 7.3. Specific end use(s)

Laboratory chemicals

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

None known.

#### 8.2. Exposure controls

##### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

##### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

General industrial hygiene practice.

##### Eye/face protection

Safety glasses with side-shields

##### Hand protection

Use barrier skin cream.

Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

In case of full contact:

Glove material : Nitrile rubber

Layer thickness: 0,11 mm

Break through time: &gt; 480 min

In case of contact through splashing:

Glove material : Nitrile rubber

Layer thickness: 0,11 mm

Break through time: &gt; 30 min

##### Skin protection

Avoid contact with skin, eyes and clothing.

##### Respiratory protection

Breathing apparatus only if aerosol or dust is formed.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                 |           |
|-----------------|-----------|
| Physical state: | powder    |
| Colour:         | white     |
| Odour:          | odourless |

#### Test method

pH-Value (at 20 °C): 4 - 4,5 (5 % solution)

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**Changes in the physical state**

|  |                   |
|--|-------------------|
| Melting point:                           | 300 °C            |
| Initial boiling point and boiling range: | no data available |
| Sublimation point:                       | no data available |
| Softening point:                         | no data available |
| Pour point:                              | no data available |
| :  | no data available |
| Flash point:                             | not applicable    |

**Flammability**

|        |                   |
|--------|-------------------|
| Solid: | no data available |
| Gas:   | no data available |

**Explosive properties**

no data available

|                         |                |
|-------------------------|----------------|
| Lower explosion limits: | not applicable |
| Upper explosion limits: | not applicable |

**Auto-ignition temperature**

|        |                   |
|--------|-------------------|
| Solid: | no data available |
| Gas:   | no data available |

Decomposition temperature: no data available

**Oxidizing properties**

no data available

|                  |                   |
|------------------|-------------------|
| Vapour pressure: | no data available |
| Vapour pressure: | no data available |

|                     |                         |
|---------------------|-------------------------|
| Density (at 20 °C): | 3,865 g/cm <sup>3</sup> |
| Bulk density:       | no data available       |

|                                 |                 |
|---------------------------------|-----------------|
| Water solubility:<br>(at 20 °C) | 144 g/L soluble |
|---------------------------------|-----------------|

**Solubility in other solvents**

no data available

|                          |                   |
|--------------------------|-------------------|
| Partition coefficient:   | no data available |
| Viscosity / dynamic:     | no data available |
| Viscosity / kinematic:   | no data available |
| Flow time:               | no data available |
| Vapour density:          | no data available |
| Evaporation rate:        | no data available |
| Solvent separation test: | no data available |
| Solvent content:         | no data available |

**9.2. Other information**

|                   |                   |
|-------------------|-------------------|
| Solid content:    | no data available |
| no data available |                   |

**SECTION 10: Stability and reactivity****10.1. Reactivity**

None known.

**10.2. Chemical stability**

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The product is chemically stable.

**10.3. Possibility of hazardous reactions**

To avoid thermal decomposition, do not overheat.

**10.4. Conditions to avoid**

Exposure to moisture.

**10.5. Incompatible materials**

Organic materials, Solvent

**10.6. Hazardous decomposition products**

Sodium oxides

**Further information**

Stable under recommended storage conditions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No toxicology information is available.

**Acute toxicity**

No data is available on the product itself.

| CAS No    | Chemical name        |                  |         |        |        |
|-----------|----------------------|------------------|---------|--------|--------|
|           | Exposure route       | Dose             | Species | Source | Method |
| 7790-28-5 | Sodium metaperiodate |                  |         |        |        |
|           | oral                 | ATE 100<br>mg/kg |         |        |        |

**Irritation and corrosivity**

No known effect.

**Sensitising effects**

No known effect.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Contains no ingredient listed as a carcinogen

**STOT-single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT-repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard**

No aspiration toxicity classification

**Specific effects in experiment on an animal**

None known.

**Additional information on tests**

None known.

**Practical experience****Observations relevant to classification**

None known.

**Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 12: Ecological information****12.1. Toxicity**

No data is available on the product itself.

**12.2. Persistence and degradability**

No data is available on the product itself.

**12.3. Bioaccumulative potential**

No data is available on the product itself.

**12.4. Mobility in soil**

No data is available on the product itself.

**12.5. Results of PBT and vPvB assessment**

No data is available on the product itself.

**12.6. Other adverse effects**

No data is available on the product itself.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

In accordance with local and national regulations.

**Waste disposal number of waste from residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**Waste disposal number of used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**Waste disposal number of contaminated packaging**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**Contaminated packaging**

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|   |   |
|---|---|
| <b><u>14.1. UN number:</u></b>                  | UN 1479   |
| <b><u>14.2. UN proper shipping name:</u></b>    | OXIDIZING SOLID, N.O.S. ( Sodium metaperiodate) |
| <b><u>14.3. Transport hazard class(es):</u></b> | 5.1   |
| <b><u>14.4. Packing group:</u></b>              | II  |
| Hazard label:                                   | 5.1   |



|                      |      |
|----------------------|------|
| Classification code: | O2   |
| Special Provisions:  | 274  |
| Limited quantity:    | 1 kg |



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Transport category: 2  
Hazard No: 50  
Tunnel restriction code: E

#### Other applicable information (land transport)

Excepted Quantities: E2

#### Inland waterways transport (ADN)

##### Other applicable information (inland waterways transport)

Not tested

#### Marine transport (IMDG)

**14.1. UN number:** UN 1479  
**14.2. UN proper shipping name:** OXIDIZING SOLID, N.O.S.  
**14.3. Transport hazard class(es):** 5.1  
**14.4. Packing group:** II  
Hazard label: 5.1



Special Provisions: 274, 900  
Limited quantity: 1 kg  
EmS: F-A, S-Q

#### Other applicable information (marine transport)

Excepted Quantities: E2

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1479  
**14.2. UN proper shipping name:** OXIDIZING SOLID, N.O.S.  
**14.3. Transport hazard class(es):** 5.1  
**14.4. Packing group:** II  
Hazard label: 5.1



Special Provisions: A3 A803  
Limited quantity Passenger: 2.5 kg  
IATA-packing instructions - Passenger: 558  
IATA-max. quantity - Passenger: 5 kg  
IATA-packing instructions - Cargo: 562  
IATA-max. quantity - Cargo: 25 kg

#### Other applicable information (air transport)

Excepted Quantities: E2

Passenger-LQ: Y544

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

no data available

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

#### Other applicable information

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Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number 3316, Package group II, EMS Code: F-A, S-P  
These transport data apply to the entire pack

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

##### Additional information

Classification according to EU Directives 67/548/EEC or 1999/45/EC  
The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

##### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

#### Changes

Revision: 21.10.2015  
Safety datasheet sections which have been updated: 2

#### Relevant H and EUH statements (number and full text)

H272 May intensify fire; oxidiser.  
H301 Toxic if swallowed.

#### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.