

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 21076-69 Buffer Powder Citrate Type

Revision date: 15.01.2020

Product code: 2107669

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

##### 1.1. Product identifier

21076-69 Buffer Powder Citrate Type

##### 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.

The product does not need to be labelled in accordance with EC directives or respective national laws.

##### 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

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+P364 Take off contaminated clothing and wash it before reuse.

#### 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	
	GHS Classification			
7558-79-4	di-Sodium hydrogen phosphate			45,0-55,0 %
	231-448-7		01-2119489797-11	
	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.

##### After ingestion

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

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#### **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**

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**

Use only in well-ventilated areas. Avoid contact with skin and eyes.

##### **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.

##### **Hints on joint storage**

None known.

##### **Further information on storage conditions**

no data available

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

Reagent for analysis

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## 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 20 °C):		6,35 (1% solution)
<b>Changes in the physical state</b>		
Melting point:		160 °C
Initial boiling point and boiling range:		not applicable
Sublimation point:		no data available
Softening point:		not applicable
:		no data available
Flash point:		not applicable
<b>Flammability</b>		
Solid:		no data available
Gas:		not applicable
<b>Explosive properties</b>		
		no data available
Lower explosion limits:		no data available
Upper explosion limits:		no data available
Ignition temperature:		no data available

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**Auto-ignition temperature**

Solid:

no data available

Gas:

not applicable

Decomposition temperature:

no data available

**Oxidizing properties**

no data available

Vapour pressure:

no data available

Vapour pressure:

no data available

Density (at 20 °C):

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

Bulk density:

not applicable

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:

not applicable

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.

**Further information**

Stable under recommended storage conditions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

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**Acute toxicity**

Based on available data, the classification criteria are not met.  
No toxicology information is available.

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

**Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.

**Sensitising effects**

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**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.

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

No information on ecology is available.  
Do not flush into surface water or sanitary sewer system.

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

In accordance with local and national regulations.

**List of Wastes Code - 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

**List of Wastes Code - 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

**List of Wastes Code - 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

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#### 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

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

### SECTION 15: Regulatory information

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

##### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

Revision: 23.09.2019

Safety datasheet sections which have been updated: 2, 11, 15

Revision: 21.05.2015

Safety datasheet sections which have been updated: 2, 4

Revision: 27.08.2014

Safety datasheet sections which have been updated: 4 - 16

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.



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**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance 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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**SCi T<sub>r</sub>EI 1Q<sub>ue</sub>Ntrfr: atrBN Bf the nPc<sub>nta</sub>N: e<sub>o</sub> rbtP<sub>cb</sub> aNu Bf the : Bo / aNysPNuedamN<sub>x</sub>****1K<sub>kw</sub>BuP: t r<sub>ue</sub>Ntrfred**

21077-69 Sodium Periodate

CAS No: 7790-28-5

EC No: 232-197-6

**1Q<sub>ke</sub>e<sub>r</sub>ant r<sub>ue</sub>Ntrfreu Pnen Bf the nPc<sub>nta</sub>N: e Bdo rbtP<sub>cb</sub> aNu Pnen auR<sub>meu</sub> axarN<sub>t</sub>****I ne Bf the nPc<sub>nta</sub>N: e<sub>o</sub> rbtP<sub>cb</sub>**

Water analysis

**1<sub>lk</sub>Detar.n Bf the nP / .redBf the saf<sub>ety</sub> uata nheet**

Company name: HACH LANGE GmbH

Street: Willstätterstr. 11

Place: D-40549 Düsseldorf

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e-mail: SDS@hach.com

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**1<sub>lk</sub>Co ed<sub>ke</sub>N: y te.e/ hBNe****NPo ced**

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

**SCi T<sub>r</sub>EI 2O<sub>3</sub> a4ad<sub>u</sub>n r<sub>ue</sub>Ntrfr: atrBN****2<sub>lk</sub>ki .annfr: atrBN Bf the nPc<sub>nta</sub>N: e Bdo rbtP<sub>cb</sub>****gexP.atrBN H<sub>ci</sub> zI Bk1272<sub>200</sub>(**

Hazard categories:

Oxidising solid: Ox. Sol. 2

Skin corrosion/irritation: Skin Corr. 1C

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

May intensify fire; oxidiser.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

**2<sub>lk</sub>k) ace. e.eo eNtn****gexP.atrBN H<sub>ci</sub> zI Bk1272<sub>200</sub>(**

SrxNa. 8 BduO

Danger

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wr: tBxcao nO



3 a4adu ntateo eNtn

- H272 May intensify fire; oxidiser.  
 H314 Causes severe skin burns and eye damage.  
 H410 Very toxic to aquatic life with long lasting effects.

wcb: aPtrBNady ntateo eNtn

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P220 Keep/Store away from combustible materials.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P310 Immediately call a POISON CENTER/doctor.

L uurtrBNa. auRr: e BN .ace..rNx

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

2lwKethedha4adu

None known.

SCi TjEI vQi Bo / BnrtrBNsNfBcb atrBN BN rNx cdureNtn

vkKSPcnta: en

3 a4aduBPn : Bo / BNeNtn

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
7790-28-5	Sodium metaperiodate	100 %
	232-197-6	
	Ox. Sol. 2, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H272 H314 H318 H400 H410	

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

SCi TjEI UQArcht aru o eanPden

UKkDen: d/ trBN Bf frcht aru o eanPden

MeNeca. rNfBcb atrBN

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

L ftedrNha.atrBN

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

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**L fted: BNta: t 8 rth nmN**

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

**L fted: BNta: t 8 rth eyen**

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

**L ftedrNxentrBN**

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

**U2kF Bnt ro / BdaNt nyo / tBo n aNu effe: tnGcBth a: Pte aNu ue.ayeu**

The product causes burns of eyes, skin and mucous membranes.

**UvkNur: atrBN Bf aNy ro o eurate o eur: a. atteNtrBN aNu n/ e: ra. tdeato eNt Neeueu**

Treat symptomatically.

**SCi TjEI , OArdefrxhtrNx o eanPden****IkCbrNxPmhrNx o eura****SPtac.e ebtrNxPmhrNx o eura**

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.

**l2kS/ e: ra. ha4adun admrNx fdBo the nPcntaN: e Bdo rbtPde**

Fire may liberate hazardous vapours.

**lvkL uRr: e fBdfrdefrxhtech**

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.

**LuurtrBNa. rNfBdb atrBN**

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

**SCi TjEI - OL : : rueNta. de.eane o eanPden****IkkwedBNa. / de: aPtrBNnG/ dBe: trRe e5Pr/ o eNt aNu eo edkeN: y / dB: euPden**

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.

**l2kCNRrdBNo eNta. / de: aPtrBNn**

Do not flush into surface water or sanitary sewer system.

**lvkF ethBun aNu o ateda. fBd: BNtarNo eNt aNu : .eanNx P/**

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).

**lUkgefedeN: e tB Bthedne: trBNn**

13. Disposal considerations

**SCi TjEI 7O3 aNu.rNx aNu ntBdaxe****7kIkwde: aPtrBNn fBdnafe haNu.rNx****L uRr: e BN nafe haNu.rNx**

Avoid contact with skin and eyes.

Use only in well-ventilated areas. Do not breathe vapours/dust.

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Wash thoroughly after handling.  
Keep away from heat and sources of ignition.

**LuR: e BN / dBte: trBN axarNnt frCb aNu eb/ .BnrBN**  
See also section 5

**APdhedrNfBcb atrBN BN haNu.rNx**

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

**7l2ki BNurtrBNn fBdnaf nBcaxeGN: .PurNx aNy rN: Bo / atrcr.rtren****ge5Prdo eNtn fBdnBcaxe cBBo n aNu Renne.n**

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

**3 rNtn BN qBrNt ntBcaxe**

Keep away from combustible material.

**APdhedrNfBcb atrBN BN ntBcaxe : BNurtrBNn**

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

**7lwKS/ e: rfr: eNu PnehHz**

Laboratory chemicals

**SCi TjEI ( OCb/ BnPcb : BNtdB.n/ echBNa. / dBte: trBN****( Kki BNtdB. / adao etech**

**LuurtrBNa. auR: e BN .ro rt Ra.Pen**  
None known.

**( l2kCb/ BnPcb : BNtdB.n****L / / dB/ date eNxrNeedNx : BNtdB.n**

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

**wdBte: trRe aNu hyxreNe o eanPden**

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.

**Cyesfa: e / dBte: trBN**

Safety glasses with side-shields

**3 aNu / dBte: trBN**

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: > 480 min

In case of contact through splashing:

Glove material : Nitrile rubber

Layer thickness: 0,11 mm

Break through time: > 30 min

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**SmN / cBte: trBN**

Avoid contact with skin, eyes and clothing.

**gen/ rdatBdy / cBte: trBN**

Breathing apparatus only if aerosol or dust is formed.

**SCi TjEI 9Owhynr. a. aNu : heo r. a. / cB/ edren****9KkNfBcb atrBN BN canr. / hynr. a. aNu : heo r. a. / cB/ edren**

Physical state:	powder
Colour:	white
Odour:	odourless

**Tent o ethBu**

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

**i haNxen rN the / hynr. a. ntate**

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

**Aao o acrrty**

Solid: no data available

Gas: no data available

**Cb/ .BnrRe / cB/ edren**

no data available

Lower explosion limits: not applicable

Upper explosion limits: not applicable

**L PtB0xNtrBN teo / edatPcb**

Solid: no data available

Gas: no data available

Decomposition temperature: no data available

**E brur4rNx / cB/ edren**

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: 144 g/L soluble

(at 20 °C)

**SB.Pcr.rty rN BthednB.ReNtn**

no data available

Partition coefficient: no data available

Viscosity / dynamic: no data available

Viscosity / kinematic: no data available

Flow time: no data available

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Vapour density: no data available  
 Evaporation rate: no data available  
 Solvent separation test: no data available  
 Solvent content: no data available

**912kE thedrnFBcb atrBN**

Solid content: no data available  
 no data available

**SCi TjEI 100Stacr.rty aNu dca: trRty****10K kg ea: trRty**

None known.

**102ki heo r. a. ntacr.rty**

Stable under recommended storage conditions.

**10wkwBnnrc.rty Bf ha4aduBPn dca: trBNn**

To avoid thermal decomposition, do not overheat.

**10Kki BNurtrBNn tB aRBU**

Exposure to moisture.

**10k kN: Bo / atrc.e o ateda.n**

Organic materials, Solvent

**10k k3 a4aduBPn ue: Bo / BnrtrBN / dBuP: tn**

Sodium oxides

**SCi TjEI 110TBbr. B.Bxr. a. rnfBcb atrBN****11K k rnfBcb atrBN BN tBbr. B.Bxr. a. effe: tn****TBbr. B: rNetr. nGo etacB.mo aNu umtdcPtrBN**

No toxicology information is available.

**L: Pte tBbr. rty**Based on available data, the classification criteria are not met.  
Toxic if swallowed.**pdhtatrBN aNu : BcbBnrRty**Causes severe skin burns and eye damage.  
Causes serious eye damage.**SeNnrtrmNx effe: tn**

Based on available data, the classification criteria are not met.

**i ad rNBxeNr: so PtaxeNr: sBbr. effe: tn fBdc/ dBuP: trBN**

Based on available data, the classification criteria are not met.

**STET0nrNx.e eb/ BnPcb**

Based on available data, the classification criteria are not met.

**STET0cb/ eateu eb/ BnPcb**

Based on available data, the classification criteria are not met.

**L n/ rcbatrBN ha4adu**

Based on available data, the classification criteria are not met.

**S/ e: rfr. effe: tn rN eb/ edo eNt BN aN aNro a.**

None known.

**L uurtrBNa. rnfBcb atrBN BN tentn**

None known.

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**wcb: tr. a. eb/ edeN: e****E cnedPatrBNn de.eRaNt tB : .annrfr: atrBN**

None known.

**APdthedrNFbcb atrBN**

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

**SCi TjEI 12OC: B.Bxr: a. rNFbcb atrBN****12Kl kTBbr: rty**

No data is available on the product itself.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
7790-28-5	Sodium metaperiodate					
	Acute algae toxicity	ErC50	1,1 mg/l	72 h	Pseudokirchneriella subcapitata (green algae)	ECHA
	Acute crustacea toxicity	EC50 mg/l	0,18	48 h	Daphnia magna (Water flea)	ECHA

**12Kk wedmteN: e aNu uexduacr.rty**

No data is available on the product itself.

**12Wkj rBa: : Po P.atrRe / BteNtra.**

No data is available on the product itself.

**12WkF Bcr.rty rN nBr.**

No data is available on the product itself.

**12k kgenP.tn Bf wj T aNu RvRj annenno eNt**

No data is available on the product itself.

**12k kE thedauRedhe effe: tn**

No data is available on the product itself.

**SCi TjEI 1vODm/ Bna. : BNnruecattrBNn****1vkl kWante tcbato eNt o ethBun****Dm/ Bna. de: Bo o eNuatrBNn**

In accordance with local and national regulations.

**) mt Bf Wanten i Bue 6denruPensPNPneu / dBuP: tn**

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

**) mt Bf Wanten i Bue 6Pneu / dBuP: t**

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

**) mt Bf Wanten i Bue 6: BNtao rNateu / a: naxrNk**

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

**i BNtao rNateu / a: naxrNk**

Dispose of as unused product.

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



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SCi TjEI 1UOTdaNn/ Bdt rNfBcb atrBN

) aNu tdaNn/ Bdt HL Dgsg pDz

1Ukkl I NPo ced

UN 1479

1U2kl I / dB/ ednhf/ rNk Nao eO

OXIDIZING SOLID, N.O.S. ( Sodium metaperiodate)

1UvkTdaNn/ Bdt ha4adu : .annhenzO

5.1

1Uukwa: rNk xCBP/ O

II

Hazard label:

5.1



Classification code:

O2

Special Provisions:

274

Limited quantity:

1 kg

Transport category:

2

Hazard No:

50

Tunnel restriction code:

E

Etheda/ / .r. ac.e rNfBcb atrBN HaNu tdaNn/ Bdtz

Excepted Quantities: E2

pLaNu 8 ated8 ayn tdaNn/ Bdt HL DI z

Etheda/ / .r. ac.e rNfBcb atrBN HN.aNu 8 ated8 ayn tdaNn/ Bdtz

Not tested

F adNe tdaNn/ Bdt HF DMz

1Ukkl I NPo ced

UN 1479

1U2kl I / dB/ ednhf/ rNk Nao eO

OXIDIZING SOLID, N.O.S.

1UvkTdaNn/ Bdt ha4adu : .annhenzO

5.1

1Uukwa: rNk xCBP/ O

II

Hazard label:

5.1



Special Provisions:

274, 900

Limited quantity:

1 kg

EmS:

F-A, S-Q

Etheda/ / .r. ac.e rNfBcb atrBN hb adNe tdaNn/ Bdtz

Excepted Quantities: E2

LrdtdaNn/ Bdt Hj LE 6T pL TL DMgz

1Ukkl I NPo ced

UN 1479

1U2kl I / dB/ ednhf/ rNk Nao eO

OXIDIZING SOLID, N.O.S.

1UvkTdaNn/ Bdt ha4adu : .annhenzO

5.1

1Uukwa: rNk xCBP/ O

II

Hazard label:

5.1



Special Provisions:

A3 A803

Limited quantity Passenger:

2.5 kg

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IATA-packing instructions - Passenger:	558
IATA-max. quantity - Passenger:	5 kg
IATA-packing instructions - Cargo:	562
IATA-max. quantity - Cargo:	25 kg

**Etheda/ / .r. ac.e rNfBcb atrBN HrdtdaNn/ Bdz**

Excepted Quantities: E2

Passenger-LQ: Y544

**1Uk kCNrBN eNta. ha4adun**

ENVIRONMENTALLY HAZARDOUS: no

**1Uk kS/ e: ra. / cb: aPtrBNn fBdPned**

no data available

**1U7kTcbNn/ Bdz rN cP.ma: : BduNk tBLNneb pBf F ad B. aNu the p i i Bue**

Not relevant

**Etheda/ / .r. ac.e rNfBcb atrBN**

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

**SCi TjEI 1, OgexP.atBdy rNfBcb atrBN****1, KkSafetyGhea.th aNu eNRcBN eNta. dexP.atrBNnsexm.atrBN n/ e: rfr: fBdthe nPcntaN: e Bdo rbtPcb****CI dexP.atBdy rNfBcb atrBN****LuurtrBNa. rNfBcb atrBN**

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

**I atrBNa. dexP.atBdy rNfBcb atrBN**

Water hazard class (D): 1 - slightly hazardous to water

**1, k2ki heo r. a. nafety annenno eNt**

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

**SCi TjEI 1- OEthed rNfBcb atrBN****i haNxen**

Revision: 15.01.2020

Safety datasheet sections which have been updated: 2, 4, 7, 11, 15

Revision: 22.02.2017

Safety datasheet sections which have been updated: 2, 10, 11

**ge.eRaNt 3 aNu CI 3 ntateo eNtn HNpo cedaNu fP.. tebtz**

H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**APdhed rNfBcb atrBN**

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