

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 24-oct-2012

Version No.: 3

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

1.1 Product identifier

Trade name/designation	Potassium periodate AnalaR NORMAPUR® analytical reagent
Product No.	26900 (VWR International)
Substance name	Potassium periodate
CAS No.	7790-21-8
INDEX no.	
REACH registration No.	Not yet communicated down the supply chain.
other means of identification	Potassium metaperiodate Potassium tetroxiodate (VII)

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

Relevant identified uses for laboratory use and chemical production.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

VWR International Ltd.

Street	Hunter Boulevard, Magna Park
Postal code/city	Lutterworth, LE17 4XN
country	United Kingdom
Telephone	0800 22 33 44
Telefax	01455 55 85 86
E-mail (competent person)	vwsds@eu.vwr.com

1.4 Emergency telephone

Telephone +44 (0) 1270 502894

2. Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

hazard classes and hazard categories	Hazard Statements	classification procedure	remark
Oxidising solid, category 2	H272		
Eye irritation, category 2	H319		

Specific target organ toxicity (single exposure), category 3, vascular	H335		
Skin irritation, category 2	H315		

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols:	R-phrases
O	R8
Xi	R36/37/38

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word

Danger

Hazard Statements

H272	May intensify fire; oxidiser.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H315	Causes skin irritation.

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

O, Xi

R-phrases

R8	Contact with combustible material may cause fire.
R36/37/38	Irritating to eyes, respiratory system and skin.

S-phrases

S17	Keep away from combustible material.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36	Wear suitable protective clothing.

2.3 Other hazards

SVHC

No

3. Composition/ Information on ingredients

Molecular formula	IKO4
Molecular weight (g/mol)	230 g/mol
CAS No.	7790-21-8
EC No	232-196-0
INDEX no.	

4. First-aid measures

4.1 General information

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

4.2 After inhalation

Call a POISON CENTER or doctor/physician. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

4.3 In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

4.4 After 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. Remove contact lenses, if present and easy to do. Continue rinsing.

4.5 After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Give nothing to eat or drink.

4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

4.7 Information to physician:

Symptoms	No data available
Hazards	No data available
Treatment	No data available

5. Firefighting measures

5.1 Suitable extinguishing media

The product itself does not burn. May intensify fire; oxidiser. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Extinguishing media which must not be used for safety reasons:

no restriction

5.3 Special hazards arising from the substance or mixture

In case of fire may be liberated: Hydrogen iodide (HJ) Sulphur oxides

5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Special danger of slipping by leaking/spilling product. In case of major fire and large quantities: Remove persons to safety. Wear a self-contained breathing apparatus and chemical protective clothing.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Suitable material for diluting or neutralizing: Lime Soda

6.4 Additional information

Clear spills immediately.

7. Handling and storage

7.1 Precautions for safe handling

Avoid: Inhalation. Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

7.2 Conditions for safe storage, including any incompatibilities

storage temperature No data available

Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available

8. Exposure controls / Personal protection

8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

8.3.2 Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact

Suitable material: No data available

Thickness of the glove material No data available

Breakthrough time (maximum wearing time) No data available

Recommended glove articles No data available

By long-term hand contact

Suitable material: No data available

Thickness of the glove material No data available

Breakthrough time (maximum wearing time) No data available

Recommended glove articles

No data available

8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

8.3.4 Respiratory protection

Respiratory protection necessary at: aerosol or mist formation.

Suitable respiratory protection apparatus:

No data available

Recommendation

No data available

Suitable material:

No data available

Recommendation

No data available

8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state

No data available

Colour

white

(b) Odour

No data available

(c) Odour threshold

No data available

Safety relevant basic data

(d) pH

No data available

(e) Melting point/freezing point

576 to 588 °C

(f) Initial boiling point and boiling range

No data available

(g) Flash point

No data available

(h) Evaporation rate

No data available

(i) Flammability (solid, gas)

not applicable

(j) Upper/lower flammability or explosive limits

Lower explosion limit (Vol-%)

No data available

Upper explosion limit (Vol-%)

No data available

(k) Vapour pressure

No data available

(l) Vapour density

No data available

(m) Relative density

3.62 g/cm³ (25°C)

(n) Solubility(ies)

Water solubility (g/l)

7 g/l (20°C)

at °C:

20

Soluble (g/l) in

No data available

(o) Partition coefficient: n-octanol/water

No data available

(p) Auto-ignition temperature

No data available

(q) Decomposition temperature

No data available

(r) Viscosity

Kinematic viscosity
Dynamic viscosity
(s) Explosive properties
(t) Oxidising properties

No data available
No data available
not applicable
May intensify fire; oxidiser.

9.2 Other information

Bulk density
refraction index
dissociation constant
Surface tension
Henry constant

No data available
No data available
No data available
No data available
No data available

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

10.7 Additional information

No data available

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Effective dose No data available
species: No data available
Exposure time
remark
source

Acute dermal toxicity
Effective dose No data available
species: No data available
Exposure time
remark
source

Acute inhalation toxicity
Effective dose No data available
species: No data available
Exposure time
remark
source

Irritant and corrosive effects

Primary irritation to the skin
Exposure time
species:
Result

Irritation to eyes
Exposure time
species:
Result

Irritation to respiratory tract
Exposure time
species:
Result

Sensitisation

In case of skin contact not sensitising.
After inhalation not sensitising.

Specific target organ toxicity (single exposure)

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

not relevant

CMR effects (carcinogenicity, mutagenicity and

toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity/Genotoxicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Aspiration hazard

not relevant

11.2 Other adverse effects

No data available

11.3 Additional information

No data available

12. Ecological information

12.1 Ecotoxicity

Acute (short-term) fish toxicity

LC50: No data available
EC50
species:
Exposure time

Chronic (long-term) fish toxicity

LC50: No data available
EC50
species:
Exposure time

Acute (short-term) daphnia toxicity

LC50: No data available
EC50
species:
Exposure time

Chronic (long-term) daphnia toxicity

LC50: No data available
EC50
species:

Exposure time

Acute (short-term) algae toxicity

LC50: No data available

EC50

species:

Exposure time

Chronic (long-term) algae toxicity

LC50: No data available

EC50

species:

Exposure time

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

(o) Partition coefficient: n-octanol/water No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT assessment

No data available

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product No data available

Appropriate disposal / Package

13.2 Additional information

No data available

14. Transport information

14.1 Land transport (ADR/RID)

UN-No.	1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S. (POTASSIUM PERIODATE)
Class(es)	5.1
Classification code:	O2
Packing group	II
Hazard label(s)	5.1

14.2 Sea transport (IMDG)

UN-No.	1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S. (POTASSIUM PERIODATE)
Class(es)	5.1
Classification code:	O2
Packing group	II
Marine pollutant	
Segregation group	

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

UN-No.	1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S. (POTASSIUM PERIODATE)
Class(es)	5.1
Classification code:	O2
Packing group	II

14.4 Additional information

No data available

15. Regulatory information

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

Water hazard class (WGK)	No data available
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15.2 Chemical Safety Assessment

No data available

16. Other information

16.1 Relevant R-, H- and EUH-phrases (Number and full text)

R8	Contact with combustible material may cause fire.
R36/37/38	Irritating to eyes, respiratory system and skin.

H272	May intensify fire; oxidiser.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H315	Causes skin irritation.

16.2 Additional information

Indication of changes

general update

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.