

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 05397

Issue date: 01.09.2023 Revision date: 01.09.2023 Supersedes version of: 09.04.2015 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance

Trade name : POTASSIUM METAPERIODATE EXTRA PURE

EC-No. : 232-196-0 CAS-No. : 7790-21-8 Product code : 05397

Type of product : Inorganic compound

Formula : KIO4

Chemical structure

 $K^+$   $\begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$ 

Synonyms : Potassium periodate

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai

INDIA

T +91 22 6663 6663 - F +91 22 6663 6699 <u>info@lobachemie.com</u> - <u>www.lobachemie.com</u>

### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Oxidising Solids, Category 1 H271
Skin corrosion/irritation, Category 1, Sub-Category 1C H314
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity – Repeated exposure, Category 1 H372
Hazardous to the aquatic environment – Acute Hazard, H400

Category 1

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

#### Adverse physicochemical, human health and environmental effects

Causes damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)









GHS03

: Danger

GHS05

GHS08

GHS09

Signal word (CLP)

Hazard statements (CLP)

: H271 - May cause fire or explosion; strong oxidiser. H314 - Causes severe skin burns and eye damage.

H372 - Causes damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, eye protection, face protection, protective gloves. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

#### **Nordic countries regulation**

Denmark

MAL code : 00-6 (Executive Order No. 301 (1993))

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Substance type : Mono-constituent

Name : POTASSIUM METAPERIODATE

CAS-No. : 7790-21-8 EC-No. : 232-196-0

Name	Product identifier	%
POTASSIUM METAPERIODATE	CAS-No.: 7790-21-8 EC-No.: 232-196-0	100

### 3.2. Mixtures

Not applicable

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial

respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Rinse skin with water/shower. Rinse

immediately contaminated clothing and skin with plenty of water before removing clothes.

Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with

water for several minutes. Call a physician immediately.

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First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice. Rinse mouth. Do not

induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : May cause respiratory irritation. Symptoms/effects after skin contact : Causes skin irritation. Burns.

Symptoms/effects after eye contact : Causes eye irritation. Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

### 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 : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry

powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : May intensify fire; oxidiser. May cause fire or explosion; strong oxidiser.

Explosion hazard : Explosive with or without contact with air.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk

of explosion.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and

no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and

eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective

equipment as required. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Stop release.

### 6.2. Environmental precautions

Do not allow water (or moist air) contact with this material. Avoid release to the environment.

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

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Clear up rapidly by scoop or vacuum. Notify authorities if

product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Keep

away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking of the control of the contro

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Protect from

moisture. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials : combustible materials.

### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

### Personal protective equipment symbol(s):









### 8.2.2.1. Eye and face protection

### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear a mask. Wear fire/flame resistant/retardant clothing.

### Hand protection:

Protective gloves

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#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

### **SECTION 9: Physical and chemical properties**

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

Physical state : Solid

Colour : Colourless or white.

Appearance : Crystalline powder or crystals.

Molecular mass : 230 g/mol Odour : Odourless. Odour threshold : Not available

Melting point : 582 °C (decomposes) Freezing point : Not applicable : Not available Boiling point : Non flammable. Flammability

Oxidising properties : The substance or mixture is classified as oxidizing with the subcategory 2.

Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : Not available : 4,5-5,5

pH solution concentration 0,5 %

Viscosity, kinematic Not applicable

Solubility : Water: 0,42 g/100ml (20°C) - Insoluble in water

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density : 3,618 g/cm<sup>3</sup> Relative density : Not available

: 7.9 Relative vapour density at 20 °C

Particle size : Not available

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

May cause fire or explosion; strong oxidiser.

### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Combustible materials.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

: Not classified Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation)

Skin corrosion/irritation : Causes severe skin burns.

pH: 4,5 - 5,5

Serious eye damage/irritation : Causes serious eye damage.

> pH: 4,5 - 5,5 Not classified : Not classified : Not classified

Germ cell mutagenicity Carcinogenicity Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

### **POTASSIUM METAPERIODATE EXTRA PURE (7790-21-8)**

Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

No additional information available

Respiratory or skin sensitisation

### **SECTION 12: Ecological information**

### 12.1. Toxicity

: Very toxic to aquatic life. Ecology - general Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acute)

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

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

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

 UN-No. (ADR)
 : UN 3085

 UN-No. (IMDG)
 : UN 3085

 UN-No. (IATA)
 : UN 3085

 UN-No. (ADN)
 : UN 3085

 UN-No. (RID)
 : UN 3085

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : OXIDIZING SOLID, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG) : OXIDIZING SOLID, CORROSIVE, N.O.S.
Proper Shipping Name (IATA) : Oxidizing solid, corrosive, n.o.s.

Proper Shipping Name (ADN) : OXIDIZING SOLID, CORROSIVE, N.O.S. Proper Shipping Name (RID) : OXIDIZING SOLID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM METAPERIODATE), 5.1

(8), I, (E)

Transport document description (IMDG) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM METAPERIODATE), 5.1

(8), I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3085 Oxidizing solid, corrosive, n.o.s. (POTASSIUM METAPERIODATE), 5.1 (8), I,

**ENVIRONMENTALLY HAZARDOUS** 

Transport document description (ADN) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S., 5.1 (8), I, ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (RID) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S., 5.1 (8), I, ENVIRONMENTALLY

HAZARDOUS

### 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 5.1 (8)
Danger labels (ADR) : 5.1, 8



#### **IMDG**

Transport hazard class(es) (IMDG) : 5.1 (8)
Danger labels (IMDG) : 5.1, 8

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#### **IATA**

Transport hazard class(es) (IATA) : 5.1 (8) Danger labels (IATA) : 5.1, 8



#### **ADN**

Transport hazard class(es) (ADN) : 5.1 (8) Danger labels (ADN) : 5.1, 8



#### **RID**

Transport hazard class(es) (RID) : 5.1 (8) Danger labels (RID)

: 5.1, 8





### 14.4. Packing group

Packing group (ADR) Packing group (IMDG) : 1 Packing group (IATA) : 1 Packing group (ADN) : 1 Packing group (RID) : 1

#### 14.5. Environmental hazards

Dangerous for the environment : Yes Marine pollutant Yes

Other information : No supplementary information available

### 14.6. Special precautions for user

### **Overland transport**

Classification code (ADR) : OC2 : 274 Special provisions (ADR) Limited quantities (ADR) : 0 Excepted quantities (ADR) : E0 Packing instructions (ADR) : P503 Mixed packing provisions (ADR) : MP2 Transport category (ADR) 1 Special provisions for carriage - Loading, unloading : CV24 and handling (ADR)

Special provisions for carriage - Operation (ADR) : S20 Tunnel restriction code (ADR) : E EAC code : 1W

### Transport by sea

: 274 Special provisions (IMDG) Limited quantities (IMDG) : 0

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Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P503
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-Q
Stowage category (IMDG) : D
Stowage and handling (IMDG) : H1

Segregation (IMDG) : SG38, SG49, SG60

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes. Particular care in handling should be

exercised if packages have become wetted.

MFAG-No : 140

#### Air transport

: E0 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity (IATA) · Forbidden PCA packing instructions (IATA) : 557 PCA max net quantity (IATA) : 1kg CAO packing instructions (IATA) : 561 CAO max net quantity (IATA) : 15kg Special provisions (IATA) : A3, A803 ERG code (IATA) : 5C

#### **Inland waterway transport**

Classification code (ADN) : OC2
Special provisions (ADN) : 274
Limited quantities (ADN) : 0
Excepted quantities (ADN) : E0
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

#### Rail transport

Classification code (RID) : OC2
Special provisions (RID) : 274
Limited quantities (RID) : 0
Excepted quantities (RID) : E0
Packing instructions (RID) : P503
Mixed packing provisions (RID) : MP2
Transport category (RID) : 1
Special provisions for carriage - Loading, unloading : CW24

and handling (RID)

Hazard identification number (RID) : 558

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

### **REACH Annex XVII (Restriction List)**

No REACH Annex XVII restrictions

#### **REACH Annex XIV (Authorisation List)**

POTASSIUM METAPERIODATE EXTRA PURE is not on the REACH Annex XIV List

### **REACH Candidate List (SVHC)**

POTASSIUM METAPERIODATE EXTRA PURE is not on the REACH Candidate List

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#### **PIC Regulation (Prior Informed Consent)**

POTASSIUM METAPERIODATE EXTRA PURE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

#### **POP Regulation (Persistent Organic Pollutants)**

POTASSIUM METAPERIODATE EXTRA PURE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### Ozone Regulation (1005/2009)

POTASSIUM METAPERIODATE is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : Not classified according to Regulation Governing Systems for Handling Substances

Hazardous to Waters (AwSV).

Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must

be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the

shipping route (according to § 10).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : POTASSIUM METAPERIODATE is listed SZW-lijst van mutagene stoffen : POTASSIUM METAPERIODATE is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

**Denmark** 

MAL code : 00-6 (Executive Order No. 301 (1993))

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	

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Abbreviations and acronyms:		
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
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 through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
Ox. Sol. 1	Oxidising Solids, Category 1
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C

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Full text of H- and EUF	I-statements:
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.