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Creation Date: 10-03-2025

Revision Date: 29-07-2030

### MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers
Product name: Potassium periodate, GR 99%+
Product Code: P 2377
CAS No : 7790-21-8
1.2. Relevant identified uses of the substance or mixture and uses advised against
Use : Industrial. For professional use only.
1.3. Details of the supplier of the safety data sheet

Company identification OTTO CHEMIE PVT LTD 101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Email <u>info@ottokemi.com</u>

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (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 Oxidizing solids (Category 1), H271 Skin corrosion (Sub-category 1C), H314 Serious eye damage (Category 1), H318 Specific target organ toxicity - repeated exposure (Category 1), Thyroid, H372 Short-term (acute) aquatic hazard (Category 1), H400 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard statement(s) H271 May cause fire or explosion; strong oxidizer. H314 Causes severe skin burns and eye damage. H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure. Very toxic to aquatic life. H400 Precautionary statement(s) Keep away from heat, hot surfaces, sparks, open flames and P210 other ignition sources. No smoking. P260 Do not breathe dust. Avoid release to the environment. P273 Wear protective gloves/ protective clothing/ eye protection/ face P280 protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. P305 + P351 + P338 Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram

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Signal Word	Danger	
Hazard statement(s) H271	May cause fire or explosion; strong oxidizer.	
H314	Causes severe skin burns and eye damage.	
H372	Causes damage to organs through prolonged or repeated	
	exposure.	
Precautionary statement(s)		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	Do not breathe dust.	
P280	Wear protective gloves/ protective clothing/ eye protection/ face	
	protection.	
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	
Supplemental Hazard	none	
Statements		
2.3 Other hazards		
This substance/mixture contains no components consider	ed to be either persistent,	

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

3.1 Substances	
Synonyms	: Potassium (meta)periodate
	Periodic acidpotassium salt
Formula	: KIO4
Molecular weight	: 230,00 g/mol
CAS-No.	: 7790-21-8
EC-No.	: 232-196-0

Component	Classification	Concentration
potassium metaperiodate		
CAS-No. 7790-21-8	Ox. Sol. 1; Skin Corr. 1C; Eye Dam. 1;	<= 100 %
EC-No. 232-196-0	STOT RE 1; Aquatic Acute 1; H271,	
	H314, H318, H372, H400 M-Factor -	
	Aquatic Acute: 1	

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of

perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

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2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

### **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 For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Hydrogen iodide Potassium oxides Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid

generation of dusts. 6.4 Reference to other sections

For disposal see section 13.

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

7.1 Precautions for safe handling

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands

and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Separately or together with other oxidising substances only and away from sources of ignition and heat. Because of their oxidation potential these products can raise the burning rate of combustible substances substantially or ignite combustible substances on contact with them. hygroscopic

Storage class

Storage class (TRGS 510): 5.1A: Strongly oxidizing hazardous materials 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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### SECTION 8: Exposure controls/personal protection

8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eve/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum laver thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L **Body Protection** protective clothing Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state solid b) Color white c) Odor odorless d) Melting Melting point/range: 582 °C - lit. point/freezing point e) Initial boiling point No data available and boiling range f) Flammability (solid, The product is not flammable. gas) g) Upper/lower No data available flammability or explosive limits h) Flash point No data available i) Autoignition No data available temperature j) Decomposition No data available temperature k) pH ca.5,1 at 5 g/l at 25 °C I) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available m) Water solubility 0,42 g/l at 20 °C n) Partition coefficient: Not applicable for inorganic substances

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n-octanol/water o) Vapor pressure	No data available			
p) Density	3,62 g/cm3 at 15 °C			
Relative density	No data available			
q) Relative vapor	No data available			
density				
r) Particle	No data available			
characteristics				
s) Explosive properties	No data available			
t) Oxidizing properties	The substance or mixture is classified as oxidizing with the			
	category 1.			
9.2 Other safety information	6 7			
No data available				
SECTION 10: Stability and reactivity				
10.1 Reactivity				
No data available				
10.2 Chemical stability				
The product is chemically stable under standard ambient co	nditions (room temperature).			
10.3 Possibility of hazardous reactions				
Risk of explosion with:				
combustible substances				
10.4 Conditions to avoid				
no information available				
10.5 Incompatible materials				
No data available				
10.6 Hazardous decomposition products				
In the event of fire: see section 5				
SECTION 11: Toxicological information				
11.1 Information on toxicological effects				
Routes of Entry: Absorbed through skin. Dermal contact. Ey				
Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/	٨g			
Inhalation LC50 Rat: > 50mg/L.				
	Classified None. by NTP, None. by OSHA, None. by NIOSH.			
Other Toxic Effects on Humans: Hazardous in case of skin	contact (irritant), of inhalation (lung irritant).			
Special Remarks on Toxicity				
to Animals: Not available.				
Special Remarks on Chronic Effects on Humans: Not available.				
Special Remarks on other Toxic Effects on Humans: Not av				
SECTION 12: Ecological information				
12.1 Toxicity				
Toxicity to fish semi-static test LC50 - Oncorhynchus mykiss	s (rainbow trout) - >			
0,17 mg/l - 96 h				
(OECD Test Guideline 203)				
Remarks: The value is given in analogy to the following sub	stances:			
sodium metaperiodate				
Toxicity to daphnia				
and other aquatic				
invertebrates				
static test EC50 - Daphnia magna (Water flea) - 0,18 mg/l - 48 h				
(OECD Test Guideline 202)				
Remarks: The value is given in analogy to the following substances:				
sodium metaperiodate				
Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (algae) - 1,1 mg/l				
- 72 h (OECD Tost Guideline 201)				
(OECD Test Guideline 201) Remarks: The value is given in analogy to the following sub	stancos			
Remarks: The value is given in analogy to the following sub sodium metaperiodate	รเลเนธร.			

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sodium metaperiodate

Toxicity to bacteria static test EC50 - activated sludge - 220 mg/l - 3 h

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sodium metaperio 12.2 Persistence a The methods for d	ue is given in analogy to the date and degradability	e following substances: egradability are not applicable to inorg	ganic			
This substance/mi		ents considered to be either persistent				
levels of 0.1% or h		sistent and very bioaccumulative (vPv	D) at			
Assessment						
Discharge into the	12.7 Other adverse effects Discharge into the environment must be avoided. We have no quantitative data concerning the ecological effects of this product.					
SECTION 13: Dis 13.1 Waste treatm	posal considerations					
No data available						
14.1 UN number	nsport information	Mark 1				
ADR/RID: 3085       IMDG: 3085       IATA: 3085         14.2 UN proper shipping name       ADR/RID       : OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium metaperiodate)         IMDG       : OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium metaperiodate)         IMDG       : OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium metaperiodate)         IATA       : Oxidizing solid, corrosive, n.o.s. (potassium metaperiodate)         14.3 Transport hazard class(es)       IATA: Solid classic						
ADR/RID: 5.1 (8) 14.4 Packaging gr		IMDG: 5.1 (8)	IATA: 5.1 (8)			
ADR/RID: I 14.5 Environmenta		IMDG: I	IATA: I			
ADR/RID: no 14.6 Special preca Tunnel restriction Further information	code : (E)	IMDG Marine pollutant: no	IATA: no			
SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture						
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.						
European Parliam	ve 2012/18/EU of the ent and of the Council					
involving dangerou P8 OXIDISING LIC						
SOLIDS E1 ENVIRONMEN Other regulations						
Take note of Dir 94/33/EC on the protection of young people at work.						

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15.2 Chemical Safety Assessment

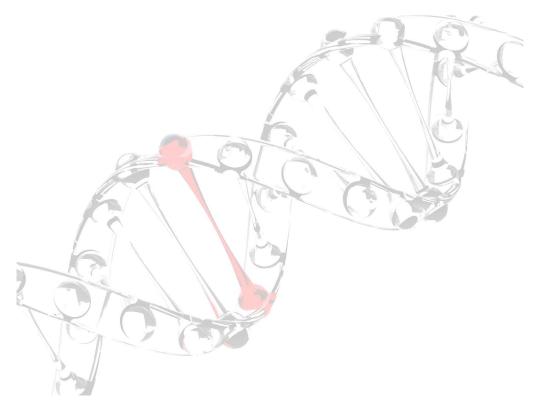
For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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