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Creation Date: 10-02-2025

Revision Date: 29-06-2030

## MATERIAL SAFETY DATA SHEET (MSDS)

#### **SECTION 1. Product identifiers**

Product name: Orthophosphoric acid, GR 85%+ Product Code: O 1337 CAS No : 7664-38-2

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 info@ottokemi.com

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 Corrosive to Metals, (Category 1) Acute toxicity, (Category 4) Skin corrosion, (Sub-category 1B) Serious eye damage, (Category 1) 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H290 H302 H314 **Precautionary Statements** P234 P270 P280 P301 + P312 P303 + P361 + P353 P305 + P351 + P338

Supplemental Hazard Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements H314 H290: May be corrosive to metals. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.

Danger

May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage.

Keep only in original packaging. Do not eat, drink or smoke when using this product.

Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. 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. Remove contact lenses, if present and easy to do. Continue rinsing. none

Danger

Causes severe skin burns and eye damage.

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protection

rinsing.

none

clothing. Rinse skin with water.

Wear protective gloves/ protective clothing/ eye protection/ face

IF ON SKIN (or hair): Take off immediately all contaminated

IF IN EYES: Rinse cautiously with water for several minutes.

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

Precautionary Statements P280

P303 + P361 + P353

P305 + P351 + P338

Supplemental Hazard Statements

2.3 Other hazards

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.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Component	Classification	Concentration
phosphoric acid		
CAS-No. 7664-38-2 EC-No. 231-633-2	Met. Corr. 1; Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H290, H302, H314, H318 Concentration limits: >= 25 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319; >= 1 %: Met. Corr. 1, H290;	>= 70 - < 90 %

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. If inhaled After inhalation: fresh air. Call in physician. In case of skin contact After skin contact: wash off with plenty of water. Remove contaminated clothing. 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 2.2) and/or in section 11 4.3 Indication of any immediate medical attention and special treatment needed No data available

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### **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 Oxides of phosphorus Not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of: Oxides of phosphorus 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: Do not breathe vapors, aerosols. 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 with liquid-absorbent and neutralising material (e.g. Chemizorb® H<sup>+</sup>, Merck Art. No. 101595). Dispose of properly. Clean up affected area. 6.4 Reference to other sections For disposal see section 13.

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

7.1 Precautions for safe handling Advice on safe handling Observe label precautions. 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 No metal or light-weight-metal containers. Tightly closed. Recommended storage temperature see product label. Storage class Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Tightly fitting safety goggles Skin protection

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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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L 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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Respiratory protection 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 liquid b) Color colorless c) Odor odorless d) Melting Melting point: ca.21 °C point/freezing point e) Initial boiling point ca.158 °C at 1.013 hPa and boiling range f) Flammability (solid, No data available gas) g) Úpper/lower No data available flammability or explosive limits h) Flash point does not flash i) Autoignition No data available temperature j) Decomposition No data available temperature < 0,5 at 100 g/l at 20 °C k) pH I) Viscosity Viscosity, kinematic: 30,5 mm2/s at 20 °C Viscosity, dynamic: No data available m) Water solubility at 20 °C soluble n) Partition coefficient: No data available n-octanol/water 2 hPa at 20 °C o) Vapor pressure p) Density 1,71 g/cm3 at 20 °C Relative densitv No data available q) Relative vapor No data available density r) Particle No data available *c*haracteristics s) Explosive properties Not classified as explosive.

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t) Oxidizing properties
9.2 Other safety information
No data available

**SECTION 10: Stability and reactivity** 

none

10.1 Reactivity No data available 10.2 Chemical stability No data available 10.3 Possibility of hazardous reactions Risk of ignition or formation of inflammable gases or vapours with: Metals metal alloys Possible formation of: Hydrogen Violent reactions possible with: Bases metallic oxides 10.4 Conditions to avoid No data available 10.5 Incompatible materials Aluminum, iron/iron-containing compounds, Mild steelGives off hydrogen by reaction with metals 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. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: 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 other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

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

SECTION 12. ECON	Jyicai information
12.1 Toxicity	
Mixture	
No data available	
12.2 Persistence an	d degradability
No data available	18
12.3 Bioaccumulativ	/e potential
No data available	
12.4 Mobility in soil	
No data available	
12.5 Results of PBT	and vPvB assessment
This substance/mixt	ture contains no components considered to be either persistent,
bioaccumulative and	d toxic (PBT), or very persistent and very bioaccumulative (vPvB) at
levels of 0.1% or hig	jher.
12.6 Endocrine disr	upting properties
Product:	
Assessment	: The substance/mixture does not contain components
	considered to have endocrine disrupting properties
	according to REACH Article 57(f) or Commission
	Delegated regulation (EU) 2017/2100 or Commission
	Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse	effects
Harmful offect due t	

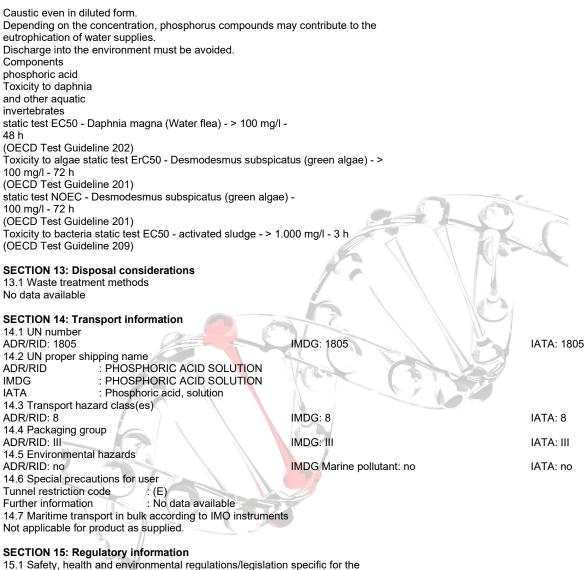
Harmful effect due to pH shift.

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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

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

### **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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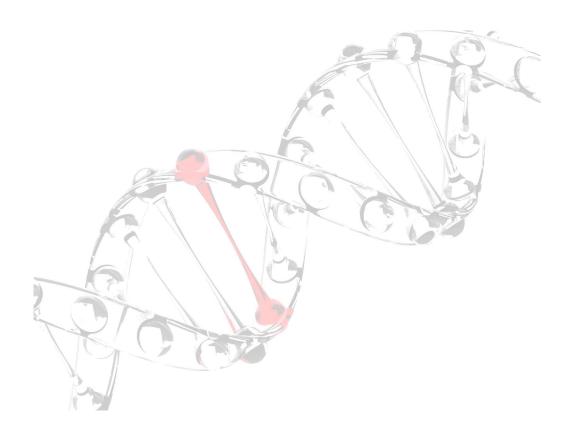
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