

NIGE **SAFETY DATA SHEET**

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Catalogue No : P 21725

Product Name : Phosphorus pentoxide

Manufacture / Supplier Identification Company : Nice Chemicals (P) Ltd., PB No: 2217,
Manimala Road, Edappally, Kochi - 682 024,
Kerala, India.

Contact for Information : **Tel:** 91-484-2800212, 2802755, 2802536,
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2 COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms :

CAS - No : 1314-56-3

Molar Mass :

Molecular weight : 141.94 g/mol

Molecular Formula :

EC - INDEX No : 015-010-00-0

EC - No : 215-236-1

3 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 : Skin corrosion (Category 1A), H314
For the full text of the H-Statements mentioned in this Section, see Section 16.


Classification according to EU Directives 67/548/EEC or 1999/45/EC : C Corrosive R35
For the full text of the R-phrases mentioned in this Section, see Section 16.

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Label Elements

Labelling according Regulation (EC) No 1272/2008

Pictogram	:	
Signal word	:	Danger
Hazard statement (s) H314	:	Causes severe skin burns and eye damage.
Precautionary statement(s) P280	:	Wear protective gloves/protective clothing/ eye protection/face protection.
P305 + P351 + P338	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	:	Immediately call a POISON CENTRE or doctor/ physician.
Supplemental Hazard Statements	:	none
Other Hazards	:	none

4 FIRST AID MEASURES

General advice	:	Consult a physician. Show this safety data sheet to the doctor in attendance.
After Inhalation	:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
After eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After swallowing	:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
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

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Indication of any immediate medical attention and special treatment needed : no data available

5 FIRE - FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	:	Oxides of phosphorus
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.
Further Information	:	No data available.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental-protection	:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections	:	For disposal see section 13.

7 HANDLING AND STORAGE

Precautions for safe handling	:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Specific end users	:	A part from the uses mentioned in section 1.2 no other specific uses are stipulated

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameter

Components with workplace control parameters

Exposure Controls

Appropriate engineering controls : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance		Form : crystalline Colour : white
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	1,5 at 10 g/l at 20 °C
Melting Point/Freezing point	:	340 °C
Initial Boiling point and boiling range	:	No data available
Flash Point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	No data available
Vapour Pressure	:	13 hPa at 238 °C 1 hPa at 384 °C
Vapour Density	:	4,90 - (Air = 1.0)
Relative density	:	2,300 g/cm ³
Water solubility	:	No data available
Partition coefficient: noctanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Other Safety information		

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Bulk density	:	300 kg/m ³
Relative vapour density	:	4,90 - (Air = 1.0)

10 STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No data available
Conditions to be avoid	:	No data available
incompatible materials	:	Water, Sodium/sodium oxides, Potassium, Ammonia, Peroxides, Magnesium, Alcohols, Metals, Oxidizing agents
hazardous decomposition products	:	In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION **Information on toxicological effects**

Acute Toxicity	:	No data available LC50 Inhalation - mouse - 1 h - 271 mg/m ³ Remarks: Lungs, Thorax, or Respiration:Chronic pulmonary edema. Lungs, Thorax, or Respiration:Other changes. Blood: Hemorrhage.
Further toxicological Information		
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitisation	:	No data available
Germ cell mutagenicity	:	No data available

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Carcinogenicity	:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	:	No data available
Specific target organ toxicity - single exposure	:	No data available
Specific target organ toxicity - repeated exposure	:	No data available
Aspiration hazard	:	No data available
Additional Information	:	RTECS: Not available Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

12 ECOLOGICAL INFORMATION

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Results of PBT and vPvB assessment	:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	:	May be harmful to aquatic organisms due to the shift of the pH.

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13 DISPOSAL METHOD

Waste treatment methods

Product	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging	:	Dispose of as unused product.

14 TRANSPORT INFORMATION

UN number	:	ADR/RID: 1807 IMDG: 1807 IATA: 1807
UN Proper shipping name	:	ADR/RID: PHOSPHORUS PENTOXIDE IMDG: PHOSPHORUS PENTOXIDE IATA: Phosphorus pentoxide
Transport hazard class(es)	:	ADR/RID: 8 IMDG: 8 IATA: 8
Packaging group	:	ADR/RID: II IMDG: II IATA: II
Environmental group	:	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	:	No data available

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture	:	No data available
Chemical safety assessment	:	For this product a chemical safety assessment was not carried out.

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16 OTHER INFORMATION

The information contained here in is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precaution. It does not represent a guarantee of the properties of the product.