

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

SDS Reference Number: 05260

□□ □□□□: 1/7/2019 □□ □□□□: 1/27/2025 □□ □□: 1/7/2019 □□: 1.0

□□ 1: □□□□□ □□□ □□ □□

1.1. □□□□

□□ □□

: □□

□□ □□

: PHOSPHORUS PENTOXIDE EXTRA PURE

EC □□ □□

: 015-010-00-0

EC □□

: 215-236-1

CAS □□

: 1314-56-3

□□ □□

: 05260

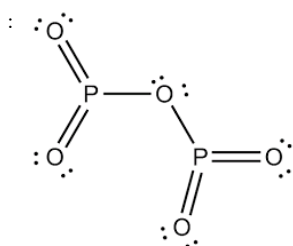
□□ □□

: Inorganic compound

□□ □□

: P2O5

□□ □□



□□ □□

: Phosphoric anhydride, Phosphorus (V) oxide, Diphosphorus pentoxide

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□

: Industrial

□□/□□□ □□ □□

For professional use only

□□□□/□□□□ □□

: Laboratory chemicals

□□ □□

1.3. □□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai

INDIA

T +91 22 6663 6663, F +91 22 6663 6699

info@lobachemie.com, www.lobachemie.com

1.4. □□□□□□

□□ □□ □□

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

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP] □□ □□ □□

□□ □□□/□□ □□□, □□ 1, □□□□ 1A

H314

□□(H) □□ □ EUH □□ □□: 16□ □□.

□□□□□, □□ □□ □ □□□□□□□

□□□□ □□ □□ □□ □□□ □□□.

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ 5: □□•□□□ □□□□

5.1. □□□ □□□

- □□□ : Dry powder. Water spray. Foam.
- □□□ : Do not use extinguishing media containing water.

5.2. □□□□□□□ □□□ □□ □□□

- □□ : No fire hazard.
- □□ : No direct explosion hazard.
- □ □□□ □□□ □□ : Toxic fumes may be released.

5.3. □□□□ □□□□ □ □□□□

- □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- □□ □ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

□□ 6: □□□□□ □□□□

6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

- □□ : □□□ □□□ □□ □□□□□ □□□ □□ □□□ □□. □□□□□ □□□□ □□ □□□□□ □□□□□□.
- □□ □□ □□ □□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area. Evacuate unnecessary personnel. □□ □ □□□ □□□ □□□□. □□/□/□□/□ □□/□□/□□□□ □(□) □□□□ □□□.
- □□ □□ □□ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□. □ □□□ □□□ □□ □ 8: "□□□□ □ □□□□□" □ □□□□□.
- □□ : Stop release. Evacuate unnecessary personnel.

6.2. □□□ □□□□ □□ □□□ □□□□

□□□□ □□□□ □□□.

6.3. □□ □□ □□ □□

- : Using a clean shovel, put the material in a dry container and cover without compressing it.
- □□ : Mechanically recover the product. Large spills: scoop solid spill into closing containers.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

□□ 7: □□ □ □□□□

7.1. □□□□□□

- □ □□□□□ □□ □□ : □□□□ □□ □□□□□ □□□ □□□ □□□ □□.
- : Ensure good ventilation of the work station. □□/□/□□/□□□□/□□/□□□□ □(□) □□□□ □□□. □□ □□□ □□□□ □□□□ □□□. □□ □ □□□ □□□ □□□□□. □□ □□□□ □□□□□□.
- □□ : □□ □□□ □□ □□ □(□) □□□ □□□□□. □□ □□ □ □□□ □□□ □□□□□□. □ □□□ □□□ □□□ □□, □□□□ □□□□ □□□. Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

- □□ : Keep in a cool, well-ventilated place away from heat.
- □□ : □□□ □□□ □□□□□. □□□ □□□ □□□□□. □□□□□ □□ □□□□□.
- : Store always product in container of same material as original container.

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

7.3. □□ □□ □□

□□ □□

8: □□□□ □□□□□□

8.1. □□ □□ □□

□□ □□

8.2. □□□□

□□□ □□□ □□

□□□ □□□ □□:

Ensure good ventilation of the work station.

□□ □□□

□□ □□□:

Wear recommended personal protective equipment.

□□ □□ □□ □□:



□ □ □ □ □ □ □ □

□ □ □:

Chemical goggles or face shield

Skin protection

□□ □□:

Wear a mask

□ □ □:

Protective gloves

□□□ □□

□□□ □□:

Wear appropriate mask

□□ □□ □□

□□ □□ □□:

□□□□ □□□□ □□□.

9: □□□□□ □□

9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□

: □□

□□

: White.

□□

: Hygroscopic. Powder.

□□□

: 141.94 g/mol

□□

: Odourless.

□□ □□

: □□□□

□□□

: 340 °C

□□□

: □□□□

□□ □□□□ □□□ □□

: 360 °C (Sublimes)

□□□

: □□□

□□ □□□

: □□□□

□□ □□□

: □□□□

□□□

: □□□□

□□□□ □□

: □□□□

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□	:	□□□□
pH	:	3.6 0.1 g/L
pH □□	:	□□□□
□□(□□□)	:	□□□□
□□□	:	□: Exothermic reaction with water
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	1 mm Hg at 384 °C
50°C□□□□ □□□	:	□□□□
□□	:	2.3 g/cm ³ at 25 °C
□□	:	□□□□
20°C□□□□ □□ □□ □□	:	4.9 (Air = 1.0)
Particle size	:	□□□□

9.2. □□□ □□□□□

□□ □□

□□ 10: □□□ □□□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □□□

Moisture.

10.5. □□□ □□□

□□ □□

10.6. □□□ □□□□ □□□□

Thermal decomposition generates : Corrosive vapours.

□□ 11: □□□ □□ □□

11.1. □□ (EC) No 1272/2008 □□□□, □□□□ □□□□ □□ □□

□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□□ □□ □□□	:	Causes severe skin burns. pH: 3.6 0.1 g/L
□□ □ □□ □□ □□□	:	Assumed to cause serious eye damage pH: 3.6 0.1 g/L
□□□ □□ □□ □□□	:	□□□□ □□
□□□□ □□□□	:	□□□□ □□
□□□	:	□□□□ □□
□□□□	:	□□□□ □□
□□ □□□□ □□ (1□ □□)	:	□□□□ □□
□□ □□□□ □□ (□□ □□)	:	□□□□ □□
□□ □□□	:	□□□□ □□

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

PHOSPHORUS PENTOXIDE EXTRA PURE (1314-56-3)

□□(□□□)

□□□□

11.2. □□ □□ □□

□□ □□

□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□

: Before neutralisation, the product may represent a danger to aquatic organisms.

□□ □□□□ □□□

: □□□□ □□

□□ □□□□ □□□

: □□□□ □□

12.2. □□□ □ □□□

PHOSPHORUS PENTOXIDE EXTRA PURE (1314-56-3)

□□□ □ □□□

□□ □□ □□

12.3. □□ □□□

□□ □□

12.4. □□ □□□

□□ □□

12.5. PBT □ vPvB □□ □□

□□ □□

12.6. □□□ □□ □□

□□ □□

12.7. □□ □□ □□

□□ □□

□□ 13: □□□ □□□□

13.1. □□□ □□□

□□ □□(□□□)

: Disposal must be done according to official regulations.

□□□ □□□

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

□□ □□ □□ □□

: Disposal must be done according to official regulations.

□□/□□ □□ □□□□

: □□, □□, □□ □/□□ □□ □□□ □□ □□□□ □□ □□ □□□ □□ □□ □□□□ □□□ □□□□□.

Disposal must be done according to official regulations.

□□ □□

: Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

UN-□□(ADR)

: UN 1807

UN-□□ (IMDG)

: UN 1807

UN-□□(IATA)

: UN 1807

UN-□□(ADN)

: UN 1807

UN-□□(RID)

: UN 1807

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

14.2. UN □□ □□□

□□ □□□ (ADR)	:	□□□□
□□ □□□ (IMDG)	:	PHOSPHORUS PENTOXIDE
□□ □□□ (IATA)	:	Phosphorus pentoxide
□□ □□□ (ADN)	:	□□□□
□□ □□□ (RID)	:	□□□□
□□ □□ □□ (ADR) (ADR)	:	UN 1807 □□□□, 8, II, (E)
□□ □□ □□ (IMDG)	:	UN 1807 PHOSPHORUS PENTOXIDE, 8, II
□□ □□ □□ (IATA)	:	UN 1807 Phosphorus pentoxide, 8, II
□□ □□ □□ (ADN)	:	UN 1807 □□□□, 8, II
□□ □□ □□ (RID)	:	UN 1807 □□□□, 8, II

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	:	8
□□ □□ (ADR)	:	8



IMDG

□□□□□ □□□ □□ (IMDG)	:	8
□□ □□ (IMDG)	:	8



IATA

□□□□□ □□□ □□ (IATA)	:	8
□□ □□ (IATA)	:	8



ADN

□□□□□ □□□ □□ (ADN)	:	8
□□ □□ (ADN)	:	8



RID

□□□□□ □□□ □□ (RID)	:	8
□□ □□ (RID)	:	8



14.4. □□□□

□□ □□ (ADR)	:	II
□□ □□ (IMDG)	:	II
□□ □□ (IATA)	:	II

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

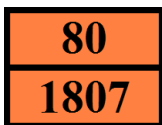
□□ □□(ADN) : II
 □□ □□(RID) : II

14.5. □□ □□□

□□□ □□ : □□□
 □□□□□□ : □□□
 EmS-No. (□□) : F-A
 EmS-No. (□□) : S-B
 □□ □□□□ : □□ □□ □□ □□

14.6. □□□□ □□ □□ □□□□

□□ □□ :
 □□ □□(ADR) : C2
 □□□(ADR) : 1kg
 □□□(ADR) : E2
 □□ □□(ADR) : P002, IBC08
 □□ □□ (ADR) : B4
 □□ □□ □□ □□ □□(ADR) : MP10
 □□□ □□ □ □□ □□□□ □□ (ADR) : T3
 □□□ □□ □ □□ □□□□ □□ □□ (ADR) : TP33
 □□ □□(ADR) : SGAN
 □□ □□□ □□ : AT
 □□ □□(ADR) : 2
 □□ □□ □□ □□ □□ - □□(ADR) : V11
 □□ □□ □□(Kemler □□) : 80
 Orange plates (□□□□□□) :



□□ □□ □□ (ADR) : E
 EAC □□ : 2X

□□ □□ :
 □□ □□(IMDG) : 1 kg
 □□□(IMDG) : E2
 □□ □□ (IMDG) : P002
 IBC □□ □□(IMDG) : IBC08
 IBC □□ □□ (IMDG) : B21, B4
 □□ □□ (IMDG) : T3
 □□ □□ □□ (IMDG) : TP33
 □□ □□ (IMDG) : A
 □□(IMDG) : SGG1, SG36, SG49
 □□□ □□□□ (IMDG) : Crystalline powder, very deliquescent. Reacts violently with water and organic materials such as wood, cotton or straw, generating heat. In the presence of moisture, mildly corrosive to most metals.
 MFAG-□□ : 137

□□ □□ :
 PCA □□ □□(IATA) : E2
 PCA □□ □□(IATA) : Y844
 PCA □□ □□ □□ □□□(IATA) : 5kg
 PCA □□ □□(IATA) : 859
 PCA □□ □□□□(IATA) : 15kg
 CAO □□ □□(IATA) : 863
 CAO □□ □□□□(IATA) : 50kg
 ERG □□(IATA) : 8W

□□ □□ □□ :
 □□ □□(ADN) : C2
 □□□(ADN) : 1 kg
 □□□(ADN) : E2
 □□ □□(ADN) : PP, EP
 □□ □□/□□□ □□(ADN) : 0

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□

□□ □□(RID)	: C2
□□ □□(RID)	: 1kg
□□□(RID)	: E2
□□ □□ (RID)	: P002, IBC08
□□ □□ (RID)	: B4
□□ □□ □□ □□ □□(RID)	: MP10
□□□ □□ □□ □□□□ □□ (RID)	: T3
□□□ □□ □□ □□□□ □□ □□ (RID)	: TP33
RID □□□ □□ □□(RID)	: SGAN
□□ □□(RID)	: 2
□□ □□ □□ □□ - □□(RID)	: W11
□□ □□□	: CE10
□□□ □□ □□ (RID)	: 80

14.7. □□□□□□(IMO) □□ □□ □□ □□

□□□□

□□ 15: □□ □□□□

15.1. □□, □□ □□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

REACH □□□ XVII □□□□ □□

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□) □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□ □□□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

POP □□ (□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□ □□(428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

□□ □□□□ □□ (2019/1148)

□□□ □□□□ □□(□□ □□□□□ □□ □ □□□ □□ □□ EU 2019/1148) □□□ □□ □□□□ □□

□□ □□□□ □□ (273/2004)

□□ □□□□ □□□ □□□ □□□□ □□(□□ □ □□□□ □□□ □□□ □□□□ □□ □□□ □□ □□ EC 273/2004)

□□ □□

□□

VOC ordinance (ChemVOCFarbV)

:

WGK

: WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□ □□ □□(12. BImSchV)

: □□ □□ □□(12. BImSchV) □□ □□ □□

□□□□

SZW-lijst van kankerverwekkende stoffen

: □□□ □□□□ □□□□□.

SZW-lijst van mutagene stoffen

: □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Borstvoeding

: □□□ □□□□ □□□□□.

PHOSPHORUS PENTOXIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

□□□

□□□ □□ □□ : 18□ □□ □□□ □□ □□□ □□□□□

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

□□ 16: □□ □□ □□□□

□□ □□ □□□□:	
ACGIH	American Conference of Government Industrial Hygienists
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	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
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
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified

