# **GHS Safety Data Sheet**

#### SDS No. : PBO01PAEG

Date Issued : 2008/02/27 Last updated : 2024/07/04

# Section 1. Identification of the substance or mixture and of the supplier Product Information

Product name: PbO Lead(II) oxide

Product number:	Purity	Form	Size or Shape
PBO14PB	99.99%(4N)	powder	_
PBO15PB	99.999%(5N)	powder	—
PBO02GB	99.99%(4N)	grain	2 <b>~</b> 5 mm
-	99.9%(3N),Others	rod & tablet	Various sizes, Various shapes
_	99.9%(3N),Others	target	Various sizes, Various shapes

#### **Company Information:**

Manufacturer : Kojundo Chemical Laboratory Co., Ltd. 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284 Phone: +81-49-284-1511 Fax: +81-49-284-1351 Emergency Phone: +81-49-284-1511

Recommended uses and restrictions on use: For research purposes

#### Section 2. Hazards identification

#### **GHS** Classification

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity(Oral, dermal, Inhalation; vapours) : Not classified Skin corrosive / irritation : Not classified Serious eye damage / irritation: : Not classified Germ cell mutagenicity : Category 2 Carcinogenicity : Category 2 Reproductive toxicity : Category 1 Specific target organ toxicity, single exposure : Category 1 Specific target organ toxicity, repeated exposure: Category 1	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label:



Pictograms or symbols:

**High Purity Materials** 

Warning word: DANGER				
Hazard information	Description of precaution			
Suspected of causing genetic defects	Obtain special instructions. Read and understand all safety precautions before handling.			
Suspected of causing cancer	Wear protective gloves/protective clothing/eye protection/respiratory			
May damage fertility or the unborn child	protection/face protection during handling.			
Causes damage to organs	Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after			
(central nervous system, kidney)	handling.			

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Causes damage to organs through
prolonged or repeated exposure
(blood system, nervous system,
cardiovascular system, kidney)

Call a POISON CENTER or doctor/physician if you feel unwell. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

# Section 3. Composition / information on ingredients

Chemical or common name:	Lead(II) oxide , Lead monoxide
Chemical formula:	PbO
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	1317-36-8
RTECS#:	OG1750000
TSCA inventory :	listed
EINECS:	2152670

# Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids.
	Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water.
	Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air.
	Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

# Section5. Fire fighting measures

Extinguishing media:	Use media appropriate for surrounding fire.
Fire fighting:	The product is not combustible.
	Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

# Section 6. Accidental release measures

Personal Precautions:
Workers should use protective wears to prevent contact with the spilt adhesive and
inhalation of its vapor/dusts.
Environmental hazard precautions:
Shut off leak if without risk.
Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:
Indoor leakage: Ventilate as much as possible until the cleaning is completed.
Outdoor leakage: Work from the windward and evacuate the leeward crowd.
Gather up, pack in closed container as much as possible.
Carefully collect remnant and move to a safe place.
Section 7 Handling and storage

# Section 7. Handling and storage

**Precautions to be taken in handling:** Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact

#### is foreseen.

Avoid prolonged or repeated exposure.



#### Precautions to be taken in storage:

General precautions: Store the material in a sealed container.

> Store in a cool, dry, well ventilated and dark place away from incompatible materials.

Section 8. Exposure controls / personal protection				
Exposure guideline:	Chemical Name	ACGIH(2024) TLV-TWA mg/m <sup>3</sup>	OSHA(2006) PEL-TWA mg/m <sup>3</sup>	
	Lead compounds (as Pb)	0.05	0.05	
Facility measure	Facility measures: Local ventilation of closed work room or total proper ventilation to prevent			
inhalation.				
Protective ware:	Wear appropriate NIOSH/MSHA-ap	pproved respirator, s	safety goggles,	
impervious gloves, protective wear, protective boots etc.				

#### Section 9. Physical and chemical properties

Color and Form:	Yellow solid, odorless
Chemical formula:	PbO
Formula weight:	223.2
Melting point:	886 °C
Specific gravity:	$9.35 \text{ g/cm}^3$
Solubility:	Insoluble; water
	Soluble; Dilute nitric acid
Flammability:	Non-combustible substance
Oxidation:	No data available

# Section10. Stability and reactivity

Stability:	Stable in closed container under room temperature.
Reactvity	
Incompatibility:	Metallic powder, strong oxidizing agents, acids

# Section11. Toxicological information

Acute toxicity:	GHS : Not classified			
	Oral rat LD <sub>50</sub> >2000 mg/kg (HSDB(2017))			
	Dermal rabbits $LD_{50} > 2000 \text{ mg/kg}$ (HSDB(2017))			
	Inhalation; vapours rat $LC_{50}(4h) > 5.05 \text{ mg/kg} (HSDB(2017))$			
Skin corrosive / irritation:	GHS : Not classified			
Serious eye damage / irritation:	GHS: Not classified			
Respiratory sensitization:	GHS : No data available			
Skin sensitization:	GHS : No data available			
	DFGOT vol. 12(199	9)		
Germ cell mutagenicity:	GHS : Category 2 ; Suspected of causing genetic defects			
Carcinogenicity:	GHS : Category 2 ; Suspected of causing cancer.			
	Carcinogenicity:			
	Chemical Name	ACGIH (2024)	IARC (2024)	NTP (2021)
	Cobalt inorganic compounds	A3	2A	R
	ACGIH A3 Confirmed Animal Car IARC 2A The agent is probably	•		o Humans.

R Reasonably Anticipated to be Human Carcinogens NTP

Reproductive toxicity:

GHS : Category 1 ; May damage fertility or the unborn child

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Specific target organ toxicity	Category 1 ; Causes damage to organs(central nervous system,
-single exposure:	kidney)
	ATSDR(2007)etc
-repeated exposure:	Category 1 ; Causes damage to organs through prolonged or
	repeated exposure(blood system, nervous system, cardiovascular system, kidney)
	ATSDR(2007)etc
Aspiration hazard:	GHS : No data available

### Section12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

-acute toxicity:	GHS : No data available
-chronic toxicity:	GHS : No data available
Hazardous to the ozone layer	GHS : No data available
	No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

## Section13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

#### Section 14. Transport information

UN classification:	Not hazardous
UN number:	None
HS code:	2824.10
Marine pollution:	None
Precautions:	Container should be transported in a secure position, in a well-ventilated vehicle.

#### Section 15. Regulatory information

TSCA inventory: Listed. Please refer to any other local / national measures that may be relevant.

## Section 16. Other information

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

