

GHS Safety Data Sheet

SDS No. : ASE01PAEG

Date Issued: 2010/09/03

Last updated:2017/10/04

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: **As Arsenic (crystalline)**

Product number:	Purity	Form	Size (mm)
ASE01PB	99.9%(3N)	Powder	300µm pass
ASE02PB	99.99%(4N)	Powder	300µm pass
ASE03PB	99.999%(5N)	Powder	300µm pass
ASE04GB	99.9999%(6N)	grains	2-5
—	99.999%(5N) ,Others	grains	2-3, 1-4, 1.5, 3-5, Various sizes
—	99.99%(4N) ,Others	target	φ 164×t5, Various sizes

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd

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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity(oral) : Category 4 Serious eye damage/eye irritation : Category 2 Carcinogenicity : Category 1A Reproductive toxicity : Category 2 Specific target organ toxicity, single exposure : Category 1 Specific target organ toxicity, repeated exposure : Category 1	Hazardous to the aquatic environment, chronic toxicity : Category 4	Pyrophoric solids : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label: C, W



Pictograms or symbols

Warning word: **DANGER**

Hazard information

Harmful if swallowed
Causes serious eye irritation.
May cause cancer.
Suspected of damaging fertility or the unborn child

Description of precaution

Obtain special instructions. Read and understand all safety precautions before handling.
 Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling.
 Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.
 Avoid release to the environment and collect spillage.

<p>Causes damage to organs. (digestive system, circulatory system, nervous system, blood system, respiratory organs, skin, kidney, liver)</p> <p>Causes damage to organ through prolonged or repeated exposure. (digestive system, circulatory system, nervous system, kidney, liver, blood system, respiratory system, skin)</p> <p>May cause long lasting harmful effects to aquatic life.</p>	<p>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>Store locked up.</p> <p>Dispose of contents/ container in accordance with local/national regulations.</p>
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Additional hazard information :

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Arsenic
Chemical formula:	As
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	7440-38-2
RTECS#:	CG0525000
TSCA inventory:	listed
EINECS:	2311486

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.

Section 5. Fire fighting measures

Extinguishing media:	Dry chemical powder, carbon dioxide, dry sand, water spray
Fire fighting:	Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire. The product is nonflammable.
Specific hazards arising from the chemical:	Heating liberates very toxic gases or fumes.
Combustion products:	Arsenic oxides

Section 6. Accidental release measures

- Personal Precautions: Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its dust/ fume.
- 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

Precautions to be taken in handling:

- Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.

Precautions to be taken in storage:

- General precautions: Store in a cool, dry place away from incompatible materials.
Keep container or bottle tightly closed.

Section 8. Exposure controls / personal protection

- Exposure guideline: ACGIH (2013): Arsenic and inorganic compounds 0.01 mg/m³ (as As)
OSHA (2006): Arsenic, inorganic compounds 0.01 mg/m³ (as As)
- Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.
- Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

Section 9. Physical and chemical properties

- Color and Form: Gray solid (crystalline), odorless.
- Chemical formula: As
- Atomic weight: 74.92
- Melting point: 817 °C / 2.8MPa
- Boiling point: 616 °C sublimes
- Density: 5.78 g/cm³
- Solubility: Water : Insoluble
Dissoluble : Hydrochloric acid(contain O₂), hot conc. sulfuric acid,
conc. nitric acid.
- Flammable: Non-flammable substance
- Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Incompatibility: Acids, oxidizing agent, halogens.

Condition to avoid: Air, heat.

Hazardous decomposition products.: Arsenic oxides, arsine

Section 11. Toxicological information

Acute toxicity(Oral): GHS : Category 4 ; Harmful if swallowed
As oral rat LD50 = 763 mg/kg (HSDB(2005))

Skin corrosive / irritation: GHS : No data available

Serious eyes damage / eye irritation: GHS : Category 2 ; Causes serious eye irritation

Respiratory sensitization: GHS : No data available

Skin sensitization: GHS : No data available

Germ cell mutagenicity: GHS : No data available

Carcinogenicity: GHS : Category 1A; May cause cancer.

Carcinogenicity:

Chemical Name	ACGIH (2013)	IARC (2016)	NTP (2014)
Arsenic As	A1	1	K
ACGIH A1	Confirmed human carcinogen.		
IARC Group 1	Carcinogenic to humans.		
NTP K	Known to be human carcinogens.		

Reproductive toxicity: GHS : Category 2;
Suspected of damaging fertility or the unborn child.

Specific target organ toxicity
—single exposure: GHS : Category 1 ; Causes damage to organs.
(digestive system, circulatory system, nervous system, blood system, respiratory organs, skin, kidney, liver)

Specific target organ toxicity
—repeated exposure: GHS ; Category 1; Causes damage to organs through prolonged or repeated exposure
(digestive system, circulatory system, nervous system, kidney, liver, blood system, respiratory system, skin)

Aspiration hazard: GHS ; No data available

Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environment
—acute toxicity: GHS ; No data available

Hazards to the aquatic environment
—chronic toxicity: GHS ; Category 4
May cause long lasting harmful effects to aquatic life

Hazardous 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

Section 13. 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 number: 1558

IATA shipping name: Arsenic

IATA classification: Hazardous Class 6.1 ; Toxic substance.

IATA packing group: II

HS code: 2804.80

Marine pollution: None

Section 15. Regulatory information

TSCA inventory : listed.

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.