1. CHEMICAL IDENTITY

Chemical Name: Lead azide
Chemical Classification: Explosive
Syonyms: Lead diazide, Lead azide, Lead(2+) azide, RD 1333

<table>
<thead>
<tr>
<th>Formula</th>
<th>CAS No</th>
<th>UN No</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6Pb</td>
<td>13424-46-9</td>
<td>2291</td>
</tr>
</tbody>
</table>

Regulated Identification

Shipping Name: Lead azide, wetted with not less than 20
Hazchem Code: 2Z
Codes / Label: Class 6.1, Explosive
Hazardous Waste ID No: 2, 3 & 4

2. PHYSICAL / CHEMICAL DATA

- Physical State: Solid
- Appearance: Needles or white powder.
- Vapour Density (Air =1):
  - g/100ml: Solubility in water at 30°C
- Others: Insoluble in NH4OH; Soluble in acetic acid
- Specific Gravity (Water =1): 4.7 g/cm3 (20 C)
- pH:

3. FIRE / EXPLOSION HAZARD DATA

- Flammability: No
- LEL:
- Flash Point °C in OC:
- TDG Flammability: UEL:
- Flash Point °C in CC:
- Autoignition Temperature °C:
- Explosion sensitivity to impact: Sensitive to shock
- Explosion sensitivity to static Electricity: May explode

Hazardous Combustion Products: When decomposed, toxic gases and fumes (NOx, Pb) are liberated.

Hazardous Polymerization: No

<table>
<thead>
<tr>
<th>Combustible Liquid</th>
<th>Explosive Material</th>
<th>Corrosive Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Flammable Material</td>
<td>Oxidiser</td>
<td>Others:</td>
</tr>
<tr>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Pyrophoric Material</td>
<td>Organic Peroxide</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

4. REACTIVITY DATA

- Chemical Stability:
- Incompatibility with other material:
- Reactivity: Mixtures with calcium stearate may explode spontaneously. Prolonged contact with copper, zinc and brass may cause spontaneous explosion.
Hazardous Reaction Products

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin and Eyes

Effects of Exposure / Symptoms:
Inhalation & eyes: Highly toxic, may be fatal if inhaled, swallowed or absorbed through skin. Effects of contact or inhalation may be delayed. Skin : Avoid any skin contact. See Inhalation.

Emergency Treatment:

Inhalation: Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method
Skin: Remove and isolate contaminated clothing and shoes. Remove material from skin immediately. Immediately flush with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin.
Eyes: Seek medical assistance.
Ingestion: Immediately flush with running water for at least 20 minutes.

LD50 (oral-rat) mg/kg: 0.75 mg/m3 0.75 (Pb) mg/m3
LC50 (rat) mg/kg: 0.75 mg/m3

TLV (ACGIH) : 0.75 (Pb) mg/m3

6. PREVENTIVE MEASURES

Personal Protective Equipment:
Dust-proof goggles, face-shields, gloves, overalls, dust respirators

Handling: All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Storage: Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

7. EMERGENCY / FIRST AID MEASURES

FIRE: Water

Special Procedure: Fire -rescuers should wear self-contained breathing apparatus.

Unusual Hazards:

EXPOSURE: First Aid Measures:

Inhalation: Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method
Skin: Remove and isolate contaminated clothing and shoes. Remove material from skin immediately. Immediately flush with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin.
Eyes: Immediately flush with running water for at least 20 minutes.
Ingestion: Seek medical assistance.
Antidotes / Dosages: Penicillamine, Ca-EDTA

SPILLS:
Steps To Be Taken: Dust is explosive. Surfaces may be washed with water.

Waste Disposal Method: Sealed container for eventual disposal.

8. ADDITIONAL INFORMATION / REFERENCES
Lead azide is used as primer in explosives.

9. MANUFACTURERS / SUPPLIERS DATA
NAME OF FIRM: Contact person
MAILING ADDRESS: in Emergency:
TELEPHONE / TELEX NOS: Local Bodies involved:
TELEGRAPHIC ADDRESS: Standard Packing:
OTHERS: Trem Card Details / Ref:

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