# Central Pollution Control Board Ministry of Environment & Forests, Govt of India, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032

# **MATERIAL SAFETY DATA SHEETS**

Glad	WATERIAL SAFETT DATA SHEETS							
343	Lead azide							
1. CHEMICAL IDENTITY								
Chemical Name : Le	ead azide							
Chemical Classification: Explosive Trade Name :								
Synonyms: Lead diazide, Lead azide, Lead(2+) azide, RD 1333								
Formula : N6Pb CAS No: 13424-46-9 UN No: 2291								
Regulated Identification								
Shipping Name : Lead azide, wetted with not less than 20 Hazchem Code : 2Z								
Codes / Label: Class 6.1, ExplosiveHazardous Waste ID No : 2, 3 & 4								
HAZARDOUS INGRE	EDIENTS C.A.S. No.	HAZARDOUS INGREDIENTS C.A.S. No.						
1 Lead azide	13424-46-9	3						
2		4						
2. PHYSICAL / CHEMICAL DATA								
Boiling Pt. °C:	Physical State: So	lid Appearance: Needles or white powder.						
Melting~350Pt °C:(explosiv)	Vapour Pressure /e) @ 35°C mmHg:	Odour:						
Vapour Density(Air =1):	Solubility in water at 30°C g/100ml:	<b>Others:</b> 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 Polymeri	zation :							
Combustible Liquid:	: No Explosive Mat	erial: Yes Corrosive Material No						
Flammable Material:	No Oxidiser :	No Others:						
Pyrophoric Material:	No Organic Perox	kide: No						
4. REACTIVITY DATA								
Chemical Stability	:							
Incompatibility with other material	:							
Reactivity	: Mixtures with calcium stcarate may explode spontaneously. Prolonged							

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# Hazardous **Reaction Products**

## 5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin and Eyes

### Effects of Exposure / Symptoms:

Inhalation & eves: 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.

#### Immediately flush with running water for at least 20 minutes. Eyes:

**Ingestion:** Seek medical assistance.

LD50 (oral-rat) mg/k	(g:	STEL:		
LC50 (rat) mg/kg:		Odour Threshold:		
Permissible Exposure Limit:	0.75 mg/m3	TLV (A	ACGIH) :	0.75 (Pb) mg/m3
NFPA Hazard	Health	Flammability	Reactivity	Special
Signals		1	4	

#### 6. PREVENTIVE MEASURES

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

- : All chemicals should be considered hazardous. Avoid direct physical Handling contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.
- : Keep in a cool, dry, dark location in a tightly sealed container or Storage cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

#### Precautions

#### 2 7. EMERGENCY / FIRST AID MEASURES

## FIRE:

Fire Extinguishing Media: Water

Special Procedure : Fire -rescuers should wear self-contained breathing
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**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.
- Immediately flush with running water for at least 20 minutes. Eyes:

Ingestion: Seek medical assistance.

# SPILLS :

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

Waste Disposal Method: Sealed container for eventual disposal.

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Lead azide is used as primer in explosives.					
9. MANUFACTURERS / SUPPLIERS DATA					
Contact person					
in Emergency :					
Local Bodies involved :					
Standard Packing :					
Trem Card Details / Ref :					

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