

Safety Data Sheet PBL6195 Date of issue: 01/05/2017 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product name	: LEAD BISILICATE
Product code	: PBL6195
Product form	: Substance
Physical state	: Solid
Formula	: O5PbSi2
Synonyms	: PLUMBOUS SILICATE
Chemical family	: METAL COMPOUND
1.2. Recommended use of the chemica	I and restrictions on use
Recommended use	: Chemical intermediate For research and industrial use only
1.3. Details of the supplier of the safety	/ data sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067	
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com - www.gelest.com	) AM - 5:30 PM EST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or	
GHS-US classification	
Specific target organ toxicity (single exposure)	Category 3 H335
Full text of H statements : see section 16	
Tuil lext of IT statements . see section To	
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P312 - Call a doctor if you feel unwell</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to licensed waste disposal facility</li> </ul>
2.3. Hazards not otherwise classified (I	HNOC)
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No data available	
SECTION 3: Composition/Information	on on ingredients
3.1. Substances	
Substance type	: Mono-constituent
Name	: LEAD BISILICATE
CAS No	: 65997-18-4

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Name	Pre	oduct identifier	%	GHS-US classification	
Lead bisilicate		S No) 65997-18-4	95 - 100	STOT SE 3, H335	
Full text of hazard classes and H-statements	s : see section 16				
3.2. Mixtures					
Not applicable					
4.1. Description of first aid measure	s				
First-aid measures general		ontaminated clothing and	l shoes. In case of accio	dent or if vou feel unwell, seek	
-	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.				
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.				
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.				
First-aid measures after eye contact	present ar	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical advice/attention.			
First-aid measures after ingestion	: Never give	e anything by mouth to a	n unconscious person. C	Set medical advice/attention.	
4.2. Most important symptoms and o	effects, both acut	e and delayed			
Symptoms/injuries after inhalation	: May cause	e respiratory irritation.			
Symptoms/injuries after skin contact	: May cause	e skin irritation.			
Symptoms/injuries after eye contact	: May cause	e eye irritation.			
Symptoms/injuries after ingestion	: May be ha	armful if swallowed.			
Chronic symptoms	: Exposure to dust or fumes of organic lead compounds is known to cause toxic effects. Lead a cumulative poison.				
4.3. Indication of any immediate me	dical attention an	d special treatment nee	ded		
Physician note: Diagnostic mobilization of le	ad with calcium EI	DTA may be useful in que	estionable cases.		
SECTION 5: Firefighting measure	es				
5.1. Extinguishing media					
Suitable extinguishing media	: Water spr	ay. Foam. Carbon dioxid	e. Dry chemical.		
Unsuitable extinguishing media	: None know	wn.			
5.2. Special hazards arising from the	e substance or m	ixture			
Fire hazard	U	umes and organic acid va res or open flame.	pors may develop wher	material is exposed to elevated	
5.3. Advice for firefighters					
Firefighting instructions	: Exercise of	aution when fighting any	chemical fire. Use wate	r spray to cool exposed surfaces.	
Protection during firefighting		: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.			
SECTION 6: Accidental release m	neasures				
6.1. Personal precautions, protectiv	e equipment and	emergency procedures			
6.1.1. For non-emergency personnel					
Protective equipment	: Wear prot	ective equipment as des	cribed in Section 8.		
Emergency procedures		unnecessary personnel.			
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6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew or proper protection. For further information refer to section 8: "Exposure controls/personal protection".				
6.2. Environmental precautions	•				
Notify authorities if product enters sewers or	public waters. Pre	event entry to sewers and	public waters.		
6.3. Methods and material for contain	nment and clean	ing up			
For containment	: Contain a streams.	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or			
Methods for cleaning up	: Sweep or	shovel spills into approp	iate container for dispos	sal.	
6.4. Reference to other sections					
See Heading 8. Exposure controls and pers	onal protection.				
SECTION 7: Handling and storag	•				
7.1. Precautions for safe handling					
Precautions for safe handling		tact with skin and eyes. [ I-ventilated area.	Do not breathe dust. Avc	oid dust formation. Use only outdoo	
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soap and water before eating, drinking or smoking and when leaving work.
luding any incompatibilities
: Keep container tightly closed. Store locked up.
: Store in a well-ventilated place. Store away from heat.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Lead bisilicate (65997-18-4)		
ACGIH	ACGIH TWA (mg/m³)	0.15 mg/m <sup>3</sup> as lead
OSHA	OSHA PEL (TWA) (mg/m³)	0.05 mg/m <sup>3</sup> as lead

8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Chemical goggles. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

<b>SECTION 9: Physical and chemica</b>	properties
9.1. Information on basic physical and	chemical prope
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 343.37 g/m
Color	: White.
Odor	: Odorless.
Odor threshold	: No data ava
Refractive index	: No data ava
рН	: No data ava
Relative evaporation rate (butyl acetate=1)	: No data ava
Melting point	: 790 - 815 °C
Freezing point	: No data ava
Boiling point	: No data ava
Flash point	: No data ava
Auto-ignition temperature	: No data ava
Decomposition temperature	: No data ava
Flammability (solid, gas)	: Not flamma
Vapor pressure	: No data ava
Relative vapor density at 20 °C	: No data ava
Relative density	: 4.62
VOC content	: <1%
Solubility	: Insoluble in
Log Pow	: No data ava
Log Kow	: No data ava
Viscosity, kinematic	: No data ava
Viscosity, dynamic	: No data ava
Explosive properties	: No data ava
Oxidizing properties	: No data ava
Explosion limits	: No data ava
9.2. Other information	

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SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable.		
<b>10.3. Possibility of hazardous reactions</b> No additional information available		
10.4. Conditions to avoid		
None known.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Lead oxide fumes. Organic acid vapors.		
<b>SECTION 11: Toxicological informat</b>	ion	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Lead bisilicate (65997-18-4)		
LD50 oral rat	> 2000 mg/kg	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
	None of the components in this produ OSHA or ACGIH as a carcinogen	ct at concentrations >0.1% are listed by IARC, NTP,
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: May cause respiratory irritation.	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Symptoms/injuries after inhalation	: May cause respiratory irritation.	
Symptoms/injuries after skin contact	: May cause skin irritation.	
Symptoms/injuries after eye contact	: May cause eye irritation.	
Symptoms/injuries after ingestion	: May be harmful if swallowed.	
Chronic symptoms	: Exposure to dust or fumes of organic a cumulative poison.	lead compounds is known to cause toxic effects. Lead is
Reason for classification	: Expert judgment	
SECTION 12: Ecological information		
12.1. Toxicity		
No additional information available		
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
Other adverse effects	: This substance may be hazardous to	the environment.
Effect on ozone layer	: No additional information available	
Effect on the global warming	: No known effects from this product.	
GWPmix comment	: No known effects from this product.	
	in the second norm the product.	
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SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Ecology - waste materials	: Avoid release to the environment.
<b>SECTION 14: Transport informatio</b>	n
14.1. UN number	
Not regulated for transport.	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	on
15.1. US Federal regulations	
Ŭ	
Lead bisilicate (65997-18-4)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory
15.2. International regulations	
CANADA	
Lead bisilicate (65997-18-4)	
Listed on the Canadian DSL (Domestic Subs	tances List)
EU-Regulations Lead bisilicate (65997-18-4)	
	ean Inventory of Existing Commercial Chemical Substances)
National regulations	
Lead bisilicate (65997-18-4)	
Listed on the AICS (Australian Inventory of C	ical Substances Produced or Imported in China) Is List) Chemicals) iemicals and Chemical Substances) of Chemical Substances)
15.3. US State regulations	
No additional information available	
SECTION 16: Other information	
Full text of H-phrases:: H335	May cause respiratory irritation
Abbreviations and acronyms	: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling.

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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Lead and its compounds are on the Community Right to Know List. Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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