

#### LEAD(II) 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE

Safety Data Sheet PBL6458 Date of issue: 02/04/2016 Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product name	: LEAD(II) 2,2,6,6-TETRA	METHYL-3,5-HEPTANE	DIONATE	
Product code	: PBL6458			
Product form	: Substance			
Physical state	: Solid			
Formula	: C22H38O4Pb			
Synonyms	: LEAD TMHD, LEAD DIPI	IVALOYLMETHANE		
Chemical family	: METAL COMPOUND			
1.2. Recommended use and restrictio	ns on use			
Recommended use	: Chemical intermediate			
1.3. Supplier				
GELEST, INC.				
11 East Steel Road Morrisville, PA 19067				
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:0	00 AM - 5:30 PM EST			
info@gelest.com - www.gelest.com				
1.4. Emergency telephone number				
Emergency number	: CHEMTREC: 1-800-424-	9300 (USA); +1 703-52	7-3887 (Int	ernational)
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance of	rmixture			
GHS-US classification				
Specific target organ toxicity (single exposure)	) Category 3 H335 May caus	e respiratory irritation		
Full text of H statements : see section 16				
2.2. GHS Label elements, including p	recautionary statements			
GHS US labeling				
Hazard pictograms (GHS US)				
Signal word (GHS US)	: Warning			
Hazard statements (GHS US)	: H335 - May cause respira	atory irritation		
Precautionary statements (GHS US)	: P261 - Avoid breathing d			
recationary statements (Cric CC)	P271 - Use only outdoors		area.	
	P304+P340 - If inhaled: F	Remove person to fresh		ep comfortable for breathing
	P312 - Call a doctor if you P403+P233 - Store in a v		on contain	ar tightly aloogd
	P405 - Store locked up.	ven-ventilateu place. Re	ep containe	er lightly closed.
	P501 - Dispose of conter	nts/container to licensed	waste disp	osal facility.
2.3. Hazards not otherwise classified	(HNOC)			
No additional information available				
2.4. Unknown acute toxicity (GHS US)	)			
Not applicable				
SECTION 3: Composition/Informat	tion on ingredients			
3.1. Substances				
Substance type	: Mono-constituent			
Name	: LEAD(II) 2,2,6,6-TETRA			
CAS-No.	: 2139-43-7			
		Dreduct identifier	0/	
Name Lead(II) 2,2,6,6-tetramethyl-3,5-heptanedionate		Product identifier (CAS-No.) 2139-43-7	<b>%</b> 95 - 100	GHS-US classification STOT SE 3, H335
		(UMO-INU.) 2109-40-1	30 - 100	5101 52 5, 11555

Full text of hazard classes and H-statement	ts : see section 16
3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measure	95
First-aid measures general	: 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	: 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 anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and	effects (acute and delayed)
Symptoms/effects after inhalation	: May cause respiratory irritation. Volatile compounds of lead should be treated with extreme caution.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Exposure to dust or fumes of organic lead compounds is known to cause toxic effects. Lead is a cumulative poison.
4.3. Immediate medical attention ar	nd special treatment, if necessary
Physician note: Diagnostic mobilization of le	ead with calcium EDTA may be useful in questionable cases.
SECTION 5: Fire-fighting measu	res
5.1. Suitable (and unsuitable) exting	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: None known.
5.2. Specific hazards arising from t	he chemical
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3. Special protective equipment a	nd precautions for fire-fighters
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water 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 r	neasures
6.1. Personal precautions, protectiv	/e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
	r public waters. Prevent entry to sewers and public waters.
6.3. Methods and material for conta	
For containment	<ul> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul>
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and pers	sonal protection.
SECTION 7: Handling and storage	·
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Use only outdoor
	or in a well-ventilated area.

Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
7.2. Conditions for safe storage, inclu	uding any incompatibilities		
Storage conditions	: Keep container tightly closed. Store locked up.		
Incompatible materials	: Air.		
Storage area	: Store in a well-ventilated place. Store away from heat.		
SECTION 8: Exposure controls/pe	rsonal protection		
8.1. Control parameters			
Lead(II) 2,2,6,6-tetramethyl-3,5-heptaned	ionate (2139-43-7)		
ACGIH ACGIH TW.	A (mg/m <sup>3</sup> ) 0.15 mg/m <sup>3</sup> as lead		
8.2. Appropriate engineering controls	3		
Appropriate engineering controls	: Provide local exhaust or general room ventilation.		
8.3. Individual protection measures/P	Personal protective equipment		
Personal protective equipment:			
Avoid all unnecessary exposure. Emergency exposure.	eye wash fountains and safety showers should be available in the immediate vicinity of any potential		
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 occu cartridge) respirator.	r from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange		
<b>SECTION 9: Physical and chemica</b>	al properties		
9.1. Information on basic physical an	d chemical properties		
Physical state	: Solid		
Appearance	: Crystals.		
Molecular mass	: 573.75 g/mol		
Color	: White to off-white.		
Odor	: Characteristic.		
Odor threshold	: No data available		
Refractive index	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: 126 - 128 °C		
Freezing point	: No data available		
Boiling point	: 320 °C decomposes		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Not flammable		
Vapor pressure	: 1 mm Hg @ 160°C		
Relative vapor density at 20 °C	: <1		
Relative density	: >1		
% Volatiles	: <3%		
Solubility	: Insoluble in water. Organic solvent:Soluble: toluene		
Log Pow	: No data available		
Log Kow	: No data available		
Print date: 04/10/2019	EN (English US) SDS ID: PBL6458 3/6		
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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Material decomposes slowly in contact with air b	y reaction with water and carbon dioxide.
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Air.	
10.6. Hazardous decomposition products	
Lead oxide fumes. Organic acid vapors.	
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
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
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/effects after inhalation	: May cause respiratory irritation. Volatile compounds of lead should be treated with extreme caution.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Exposure to dust or fumes of organic lead compounds is known to cause toxic effects. Lead is a cumulative poison.
Reason for classification	: Expert judgment
<b>SECTION 12: Ecological information</b>	
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	

Diter adverse effects       : This substance may be hazardous to the environment.         Effect on the ozone layer       : No additional information available         SECTION 13: Disposal considerations       : Do not dispose of vaste into sever.         Product/Packaging disposal recommendations       : Do not dispose of vaste into sever.         Product/Packaging disposal recommendations       : Do not dispose of vaste into sever.         Product/Packaging disposal recommendations       : Do not dispose of vaste into sever.         Product/Packaging disposal recommendations       : Do not dispose of vaste into sever.         Product/Packaging disposal recommendations       : Avoid release to the environment.         SECTION 14: Transport information       : Avoid release to the environment.         Veragulated for transport.       : Wo regulated for transport.         Veragulated for transport.       : No supplementary information available.         Attransport by sea       : No supplementary information available.         SECTION 15: Regulatory information       : No supplementary information available.         SECTION 15: Regulatory information       : No supplementary information available.         SECTION 15: Regulatory information       : No supplementary information available.         SECTION 15: Regulatory information       : No supplementary information available.         Letad(I) 2.2.6.6-tetramethyr3.5-heptanedionate (2				
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SECTION 13: Disposal considerations  13.1 Disposal recommendations  2.1 Dispose of valid materials or residues at a licensed site. Dispose of contents/container to licensed value disposal factormendations  2.2 Product/Packaging disposal recommendations  2. Dispose of solid materials or residues at a licensed site. Dispose of contents/container to licensed value disposal factorment.  3.2 Disposal recommendation  3.2 Avoid release to the environment.  3.2 Over regulated for transport.  3.3.2 Over regulated for transport.  3.4 Void release to the environment.  3.4 Void regulated for transport.  3.4 Void regulations  3.5 Dispose regulations  3.5 Dispose regulations  3.5 Dispose regulations  3.6 Dispose regulations  3.7 Dispose regulations  3.6 Dispose regulations  3.6 Dispose regulations  3.7 Dispose regulations  3.6 Dispose regulations  3.7 Dispose regulations  3.7 Dispose regulations  3.8 Dispose regulations  3.8 Dispose	Other adverse effects	: This substance may be hazardous to the environment.		
13.1. Disposal methods       : Do not dispose of waste into sewer.         Product/Packaging disposal recommendations       : Dispose of solid materials or residues at a licensed site. Dispose of contents/container to licensed waste disposal facility.         Ecology - waste materials       : A void release to the environment.         SECTION 14: Transport information       .         14.1. UN number       .         Vat regulated for transport.       .         14.2. UN proper shipping name       .         Not applicable       .         14.3. Additional information       : No supplementary information available.         Transport       : No supplementary information available.         SECTION 15: Regulatory information       : No supplementary information available.         SECTION 15: Regulatory information       : No supplementary information available.         SECTION 15: Regulatory information       : No Supplementary information available.         SECTION 15: Regulatory information       : No CUTION: This material is supplied for research and development puposes valued to the RAD exemption including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(c). The use of this material for 'commercial puposes' as defined by 40 CFR 720.3(c). The isse of not permitted in the United States.         Lead(II) 2,2,6,6-tetramethy-3,5-heptanedionate (2139-43-7)       .         Not listed on the United States TSCA (Toxic Substances Control Act) invento	Effect on the ozone layer	: No additional information available		
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	_	t contain any substances known to the state of California to cause cancer, developmental		
	and/or reproductive harm			
	SECTION 16: Other information			

Full text of H-phrases::

H335

May cause respiratory irritation

#### LEAD(II) 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE

Safety Data Sheet

Concentration; ATE: Acute Toxicity Estimates; H: hour; •: •C nillimeters Hg, torr; PEL: permissible exposure level; TWA: nreshold limit value; TG: Test Guideline; NIOSH: National I lealth; IARC: International Agency for Research on Cancel Program; HMIS: Hazardous Material Information System; C Registration Number; EC No.: European Commission Regis Suropean Commission Index Number; OECD: The Organis nd Development; GHS: The Globally Harmonized System	C unless otherwise stated; mm: time weighted average; TLV: Institute for Occupational Safety and r; NTP: National Toxicology AS No.: Chemcial Abstract Service stration Number; EC Index No.: ation for Economic Co-operation
	n is taken and medical treatment is
C nn th FF E a A : 3 g : 1 s : 0	<ul> <li>Abbreviations: ND: Not Determined, No Data; NA: Not Appli Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C millimeters Hg, torr; PEL: permissible exposure level; TWA: threshold limit value; TG: Test Guideline; NIOSH: National I Health; IARC: International Agency for Research on Cancer Program; HMIS: Hazardous Material Information System; C Registration Number; EC No.: European Commission Regis European Commission Index Number; OECD: The Organis: and Development; GHS: The Globally Harmonized System APF: Assigned Protection Factor.</li> <li>3 Serious Hazard - Major injury likely unless prompt action given</li> <li>1 Slight Hazard - Materials that must be preheated before ig solids and semi solids having a flash point above 200 F. (CI</li> <li>0 Minimal Hazard - Materials that are normally stable, ever react with water, polymerize, decompose, condense, or self</li> </ul>

#### 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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