# **Natural** Pigments

# Lead White Safety Data Sheet

Issue Date: January 5, 2016 Version: 1.0

## **SECTION 1: Product and company identification**

#### 1.1. Product

Product Form: Product Name(s): CAS No. Product Code(s):

Powder Lead White, Basic Lead Carbonate 1319-46-6 475-10xx

## **1.2.** Relevant Identified Uses of the Product

For art and art conservation use only.

## 1.3. Company Details and Supplier of the Safety Data Sheet

#### **Natural Pigments**

291 Shell Lane, Willits, California 95490 Telephone: 707-459-9998 Facsimile: 408-516-9442 Email: info@naturalpigments.com Web site: www.naturalpigments.com

## **1.4. Emergency Telephone Number**

CHEMTREC: 1-800-424-9300 or 011-703-527-3887

## **SECTION 2: Hazards identification**

## 2.1. Classification of Hazardous Substances

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute oral toxicity	Category 4
Acute Inhalation Toxicity—Dusts and Mists	Category 4
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1A
Specific target organ toxicity—(repeated exposure)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

## 2.2. Label elements

#### **GHS-US Labelling** Hazard Pictograms (GHS-US):

Signal word (GHS-US): Hazard statements (GHS-US):	<b>Danger</b> H302 + H332 Harmful if swallowed or if inhaled. H360 May damage fertility or the unborn child.
	H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements (GHS-US):	P201 Obtain special instructions before use. P273 Avoid release to the environment.
	P308 + P313 IF exposed or concerned: Get medical advice/ attention. P501 Dispose of contents/container to an approved waste disposal plant.
HMIS Classification	Health hazard: 2 Chronic Health Hazard: *
NEDA Dating	Flammability: 0 Physical hazards: 0 Health hazard: 2
NFPA Rating	Health hazard: 2

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Fire: 0 Reactivity Hazard: 0 **Potential Health Effects** Inhalation Toxic if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Ingestion Toxic if swallowed.

## 2.3. Other hazards

Other hazards not contributing to the classification: None under normal conditions.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

## **SECTION 3: Composition/information on ingredients**

3.1. Substance				
Product type:	Mono-constituent			
Name	Product Identifier	%	GHS-US Classifiction	
Basic Lead Carbonate (Lead(II) Carbonate)	CAS No. 598-63-0 EC No. 209-943-4	100	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335	

Full text of H-phrases: see section 16

## 3.2. Mixture

#### Not applicable

4.1. Description of first aid measu	ıres
First-aid measures general:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CEN- TER/doctor/physician.
First-aid measures after skin contact:	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present an easy to do. Continue rinsing.
First-aid measures after ingestion:	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician.

#### Symptoms/injuries after inhalation: May cause respiratory irritation.

Causes skin irritation. Causes eye irritation.

## 4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

Symptoms/injuries after skin contact:

Symptoms/injuries after eye contact:

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media: Unsuitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a heavy water stream.		
5.2. Special hazards arising from the substance or mixture			

Hazardous decomposition products formed under fire conditions: Lead oxides

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5.3. Advice for firefighters	
Firefighting instructions:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental r	elease measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
6.1.1. For non-emergency personr	
Protective equipment: Emergency procedures:	Safety glasses. Gloves. Dust mask. Evacuate unnecessary personnel to safe areas. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
6.1.2. For emergency responders	
Protective equipment: Emergency procedures:	Equip cleanup crew with proper protection. Ventilate area.
<b>6.2. Environmental precautions</b> Prevent further leakage or spillage if sat if liquid enters sewers or public waters.	fe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Notify authorities
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up:	On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
6.4. Reference to other section	ns
See Heading 8. Exposure controls and p	ersonal protection.
SECTION 7: Handling an	ld storage
7.1. Precautions for safe hand	ling
Precautions for safe handling:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Use only outdoors or in a well-ventilated area.
Hygiene measures:	Wash exposed skin thoroughly after handling.
	e, including any incompatibilities
Storage conditions: Incompatible products: Incompatible materials:	Keep container tightly closed. Strong oxidizers. Strong acids. Sources of ignition.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure co	ntrols/personal protection
8.1. Control parameters	
Lead(II) Carbonate (598-63-0)	
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> ) 0.05 mg/m <sup>3</sup> ACGIH Threshold Limit Values (TLV)
Remarks	Central Nervous System impairment Hematologic effects Peripheral Nervous System impairment. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Confirmed animal carcinogen with unknown relevance to humans varies. See 1910.1025.
USA NIOSH	OSHA PEL (TWA) (mg/m <sup>3</sup> ) 0.05 mg/m <sup>3</sup> NIOSH Recommended Exposure Limits

## 8.2. Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

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Personal protective equipment:	Avoid all unnecessary exposure.
Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of con- taminated gloves after use in accordance with applicable laws. Wash and dry hands.
Eye protection:	Chemical goggles or safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection:	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respira- tor type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Other information:	Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state:		Solid
Appearance:		White powder or lumps
Molecular mass:		267.21 g/mol
Color:		White
Odor:		None
Odor threshold:		No data available
pH:		No data available
Relative evaporation rate (but	ylacetate=1):	No data available
Melting point:		400 °C (752 °F)
Freezing point:		Not applicable
Boiling point:		No data available
Flash point:		No data available
Self ignition temperature:		No data available
Decomposition temperature:		No data available
Flammability (solid, gas):		No data available
Vapour pressure:		No data available
Relative vapour density at 20	°C:	No data available
Relative density:		No data available
Density:		6.14 g/cm³
Solubility:		Water: 0.00153 g/100ml
Log Pow:		No data available
Log Kow:		No data available
Viscosity, kinematic:		No data available
Viscosity, dynamic:		No data available
Explosive properties:		No data available
Oxidising properties:		No data available
Explosive 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 under normal conditions.

## 10.3. Possibility of hazardous reactions

Reacts with acids.

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## 10.4. Conditions to avoid

No data available.

## 10.5. Incompatible materials

## Strong acids. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Lead oxides.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity:	Not classified
Lead (II) Carbonate (598-63-0)	
Oral LD50 rat	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell mutagenicity: Specific target organ toxicity (single ex Specific target organ toxicity (repeated Aspiration hazard:	Not classified Not classified
<b>Potential Health Effects</b> Inhalation Ingestion Skin Eyes	Toxic if inhaled. May cause respiratory tract irritation. Toxic if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.
	May cause respiratory irritation. Causes skin irritation. Causes eye irritation. Inhalation; Skin and eye contact he placenta and to induce embryo- and feto-mortality. They also have teratogenic effect in some animal n reported with exposure to organometallic lead compounds. Adverse effects of lead on human reproduction,

species. No teratogenic effects have been reported with exposure to organometallic lead compounds. Adverse effects of lead on human reproduction, embryonic and fetal development, and postnatal (e.g., mental) development have been reported. Excessive exposure can affect blood, nervous, and digestive systems. The synthesis of hemoglobin is inhibited and results in anemia. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. Additional symptoms of overexposure include: joint and muscle pain, weakness of the extensor muscles (frequently the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High body levels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Carcinogenicity	
IARC:	Group 3: Not classifiable as to its carcinogenicity to humans (Lead(II) carbonate)
	Group 2A: Probably carcinogenic to humans (Lead(II) carbonate)
NTP:	Reasonably anticipated to be a human carcinogen. The reference note has been added by TD based on the background information of the NTP. (Lead(II) carbonate)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a car- cinogen or potential carcinogen by OSHA.

**Reproductive Toxicity** Known human reproductive toxicant

**Teratogenicity** No data available

12.1. Toxicity

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**SECTION 12: Ecological information** 

Lead (II) Carbonate (598-63-0)	
Toxicity to fish	LC50— <i>Pimephales promelas</i> (fathead minnow) > 5.00 mg/l—96.0 h
12.2. Persistence and degradab	pility
Lead (II) Carbonate (598-63-0)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potentia	al
Lead (II) Carbonate (598-63-0)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Very toxic to aquatic life with long lastir	
	uded in the event of unprofessional handling or disposal.
SECTION 13: Disposal co	nsiderations
13.1. Waste treatment method	S
Waste disposal recommendations: Contaminated kackagin: Ecology—waste materials:	Dispose in a safe manner in accordance with local/national regulations. Dispose of as unused product. Avoid release to the environment.
SECTION 14: Transport in	nformation
<b>DOT</b> Not dangerous goods in sense of transpo	rt regulations.
IMDG UN number: 3077 Class: 9 Packin Proper shipping name: Marine Pollutant:	<b>Ig group: III EMS-No: F-A, S-F</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead(II) carbonate) Marine pollutant
ΙΑΤΑ	
UN number: 3077 Class: 9 Packin Proper shipping name:	<b>g group: III</b> Environmentally hazardous substance, solid, n.o.s. (Lead(II) carbonate)
<b>Further information</b> EHS-Mark required (ADR 2.2.9.1.10, IMD Goods >5L for liquids or >5kg for solids.	G code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous
Additional information	
Other information:	No supplementary information available.
SECTION 15: Regulatory	information
15.1. US Federal regulations	

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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## 15.2. International regulations

## Lead(II) Carbonate (598-63-0)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification

International Inventories		
Country(s) or region	Inventory name	On inventory*
Australia Australian	Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

\*"Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 15.3. US State regulations

Massachusetts Rig	ht To Know Components			
-	·	CAS No.	Revision Date	
Lead(II) carbona	ate	598-63-0	1993-04-24	
Pennsylvania Righ	t To Know Components			
		CAS No.	Revision Date	
Lead(II) carbona	ate	598-63-0	1993-04-24	
New Jersey Right	To Know Components			
		CAS No.	Revision Date	
Lead(II) carbonate		598-63-0	1993-04-24	
California Prop. 6	5 Components			
WARNING! This	product contains a chemical known to t	he State of California to cause cance		
		CAS No.	Revision Date	
Lead(II) carbonate		598-63-0	2007-09-28	
SECTION 16:	Other information			
Other information:	None.			
Full text of H-phrases	: see section 16:			
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B			
Skin Irrit. 2	Skin corrosion/irritation, Category 2	)		

Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H315	Causes skin irritation	
H320	Causes eye irritation	
H335	May cause respiratory irritation	

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