

Safety Data Sheet

Cremnitz White



Product Identifier: Lead white

Section 1 - IDENTIFICATION

Product Identifier: Lead white

Synonyms

LEAD CARBONATE HYDROXIDE; BASIC LEAD CARBONATE

Recommended Use

For use in industrial applications.

Restrictions on Use

For industrial use only.

Manufacturer Information

Michael Harding Art Formulas LTD
Springvale Ind Est
Cwmbran, Torfaen
NP44 5BE

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Emergency telephone number: +44(0)1633484700 (Mon-Thur 08:00-16:30,
Fri 08:00-15:30)

Section 2 - HAZARD(S) IDENTIFICATION

Classification in accordance with 29 CFR 1910.1200.

Acute Toxicity (Oral), Category 4

Acute Toxicity (Inhalation), Category 4

Toxic to reproduction, Category 1A

Specific Target Organ Toxicity - Repeated Exposure, Category 2 (circulatory system, kidneys, and nervous system)

Hazardous to the aquatic environment - acute hazard, Category 1

Hazardous to the aquatic environment - chronic hazard, Category 1

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statement(s)

Harmful if swallowed

Harmful if inhaled

May damage fertility or the unborn child

May cause damage to circulatory system, kidneys, and nervous system through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects

May form combustible dust concentrations in air

Precautionary Statement(s)

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Do not breathe dust or mist. Use only outdoors or in a well-ventilated area. Do not eat, drink, or smoke when



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using this product. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Avoid release to the environment.

Response

IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Collect spillage.

Storage

Store locked up.

Disposal

Dispose in accordance with all applicable regulations.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Percent
1319-46-6	Basic lead carbonate	≥99

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Lead compounds.

Section 4 - FIRST-AID MEASURES

Description of Necessary Measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin Contact

Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Most Important Symptoms/Effects

Acute

No information on significant adverse effects.

Delayed

reproductive effects, circulatory system damage, kidney damage, nervous system damage

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively.

Section 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

water spray, alcohol resistant foam, regular dry chemical, carbon dioxide

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Special Hazards Arising from the Chemical

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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Hazardous Combustion Products

Combustion: oxides of lead, oxides of carbon

Fire Fighting Measures

Do not scatter spilled material with extinguishing agent. If safe to do so, move undamaged containers from the fire area. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Special Protective Equipment and Precautions for Firefighters

Wear personal protective clothing and equipment such as self-contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

Do not touch spilled material. Stop leak if possible without personal risk. Collect spilled material in appropriate container for disposal. If sweeping of a contaminated area is necessary, use a dust suppressant agent. Shovel or sweep up. Avoid sweeping spilled dry material. Eliminate ignition sources including sources of electrical, static or frictional sparks. Use non-sparking tools and equipment. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Keep out of water supplies and storm sewers.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dissipate static electricity during transfer by earthing (grounding and bonding) containers and equipment.

Conditions for Safe Storage, including any Incompatibilities

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep container tightly closed and properly labeled. Avoid generating dust. Store locked up. Keep away from incompatible materials.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Basic lead carbonate (1319-46-6)

NIOSH: 0.050 mg/m³ TWA (as Pb, related to Lead compounds)

Component Biological Limit Values

There are no biological limit values for the component(s) of this product.

Appropriate Engineering Controls

Ensure compliance with applicable exposure limits. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

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Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear protective clothing to prevent contact.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Respiratory Protection

Where dust or vapor concentration exceeds or is likely to exceed applicable exposure limits, a NIOSH approved respirator is required.

A NIOSH approved respirator with N100 filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.

Consult with a health and safety professional for specific respirators appropriate for your use.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Appearance:	white powder
Color:	white	Physical Form:	powder
Odor:	odorless	Odor Threshold:	Not available
pH:	Not available	Melting Point:	Decomposes
Boiling Point:	Not available	Flash Point:	Not available
Decomposition Temperature:	400°C	Evaporation Rate:	Not available
LEL:	Not available	UEL:	Not available
Vapor Pressure:	7.26E-007 mmHg (25°C) (estimated value, PHYSPROP Database)	Vapor Density (air = 1):	Not available
Density:	Not available	Specific Gravity (water = 1):	6.14 g/cm ³
Water Solubility:	Insoluble	Log KOW:	Not available
Coeff. Water/Oil Dist:	Not available	Auto Ignition Temperature:	Not available
Viscosity:	Not available	Oxidizing Properties:	Not available
Explosive Properties:	Not available	Flammability (solid, gas):	Not available

Other Property Information

No additional information is available.

Solvent Solubility

Soluble: acetic acid

Insoluble: alcohol

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at standard temperatures and pressure.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

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Conditions to Avoid

Avoid accumulation of airborne dusts. Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

acids, metals, halogens, peroxides, oxidizing materials

Hazardous Decomposition

Combustion: oxides of lead, oxides of carbon

* * *Section 11 - TOXICOLOGICAL INFORMATION* * *

Acute Toxicity

Component Analysis - LD50/LC50

The component(s) of this material have been reviewed in various sources and no selected endpoints have been identified.

Information on Likely Routes of Exposure

Inhalation

irritation, nausea, vomiting, diarrhea, constipation, stomach pain, chest pain, fatigue, sleep disturbances, emotional disturbances, muscle cramps, visual disturbances, kidney damage, liver damage, paralysis, brain damage, convulsions, changes in blood pressure, loss of appetite, weight loss, headache, disorientation, joint pain, eye damage, hormonal disorders, blood disorders, nerve damage, reproductive effects, birth defects, coma, cancer

Ingestion

irritation, nausea, vomiting, diarrhea, constipation, stomach pain, chest pain, fatigue, sleep disturbances, emotional disturbances, muscle cramps, visual disturbances, kidney damage, liver damage, paralysis, brain damage, convulsions, changes in blood pressure, loss of appetite, weight loss, headache, disorientation, eye damage, joint pain, blood disorders, hormonal disorders, blood disorders, nerve damage, reproductive effects, birth defects, coma

Skin Contact

irritation

Eye Contact

irritation

Immediate Effects

No information on significant adverse effects.

Delayed Effects

reproductive effects, circulatory system damage, kidney damage, nervous system damage

Medical Conditions Aggravated by Exposure

blood system disorders, gastrointestinal disorders, nervous system disorders, respiratory disorders

Irritation/Corrosivity Data

Mechanical irritation may occur.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Germ Cell Mutagenicity

No information available for the product.

Carcinogenicity

Component Carcinogenicity



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NTP: Reasonably Anticipated To Be A Human Carcinogen (related to Lead compounds)

OSHA: Present (related to Lead compounds)

Reproductive Toxicity

Available data characterizes this substance as a reproductive hazard.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

circulatory system, kidneys, nervous system

Aspiration Hazard

No data available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for the component(s) of this product.

Persistence and Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility

No information available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Disposal of Contaminated Packaging

Empty containers may contain product residue. Dispose in accordance with all applicable regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information

Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Contains: Basic lead carbonate)

UN/NA #: Not applicable

TDG Information

Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Contains: Basic lead carbonate)

UN #: Not applicable

Marine Pollutant

No component(s) of this material is specifically listed in the IMDG Code as an identified marine pollutant.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312

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Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactive: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Basic lead carbonate ('related to: Lead compounds)	1319-46-6	Yes ¹	Yes	No	Yes ¹	Yes ¹

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Canada

Canadian WHMIS Ingredient Disclosure List (IDL)

None of the product's component(s) are listed on the Ingredients Disclosure List (IDL).

Chemical Inventory Listings

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Basic lead carbonate	1319-46-6	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

* * *Section 16 - OTHER INFORMATION* * *

Summary of Changes

Updated: July 30, 2014

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

CAS No. - Chemical Abstract Service Registry Number; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC Code - International Bulk Chemical Code; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; LC₅₀ - Lethal Concentration, 50%; LD₅₀ - Lethal Dose, 50%; LEL - Lower Explosive Limit; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

Other Information

Disclaimer: Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

End of Sheet