Material Safety Data Sheet
Lead(II) carbonate, basic, -325 mesh

MSDS# 71439

Section 1 - Chemical Product and Company Identification

MSDS Name: Lead(II) carbonate, basic, -325 mesh
Catalog Numbers: AC222710000, AC222710025, AC222710050, AC222710100, AC222715000
Synonyms: Lead carbonate hydroxide.

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaalaaan 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 1319-46-6
Chemical Name: Lead, bis[carbonato(2-)]dihydroxytri-
%: >78
EINECS#: 215-290-6

Hazard Symbols: T N
Risk Phrases: 61 20/22 33 50/53 62

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! May cause kidney damage. May cause central nervous system effects. Causes eye and skin irritation. Causes digestive and respiratory tract irritation. May cause reproductive and fetal effects. May cause cancer based on animal studies. May cause blood abnormalities. Very toxic to aquatic organisms. Target Organs: Kidneys, central nervous system, blood forming organs.

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of lead compounds can cause toxic effects in the blood-forming organs, kidneys and central nervous system.
Inhalation: May cause respiratory tract irritation. May cause effects similar to those described for ingestion.
Chronic: Chronic exposure to lead may result in plumbism which is characterized by lead line in gum, headache, muscle weakness, mental changes.
Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:
The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel. The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Use agent most appropriate to extinguish fire.

Autoignition Temperature: Not applicable.
Flash Point: Not applicable.
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
NFPA Rating: health: 2; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Keep from contact with oxidizing materials.

Section 8 - Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
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<tbody>
<tr>
<td>Lead, bis[carbonato(2-)]dihydroxytrihydrogen</td>
<td>0.05 mg/m³ TWA</td>
<td>0.050 mg/m³ TWA</td>
<td>50 μg/m³ TWA (as Pb) (listed under Lead, inorganic compounds).100</td>
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<td>(as Pb) (listed under Lead, inorganic compounds).</td>
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<td></td>
<td>mg/m³ IDLH (as Pb) (listed under Lead, inorganic compounds).50</td>
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</table>

- see 29 CFR 1910.102 5) (listed under Lead, inorganic compounds).
OSHA Vacated PELs: Lead, bis[carbonato(2-)])dihydroxytri:- None listed

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Color: white
Odor: Not available
pH: Not available
Vapor Pressure: Not available
Vapor Density: 9.21
Evaporation Rate: Not applicable.
Viscosity: Not applicable.
Boiling Point: Not available
Freezing/Melting Point: 400 deg C (dec)
Decomposition Temperature:
Solubility in water: Insoluble in water.
Specific Gravity/Density: Not available.
Molecular Formula: C2H2O8Pb3
Molecular Weight: 775.59

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials Not available

Hazardous Decomposition Products Strong oxidants, lead/lead oxides.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 1319-46-6: None listed
LD50/LC50: RTECS: Not available.

Lead, bis[carbonato(2-)]dihydroxytri- - California: carcinogen, initial date 10/1/92 (Lead compounds).
Carcinogenicity: NTP: Suspect carcinogen (Lead compounds). IARC: Group 2A carcinogen (Lead, inorganic compounds).

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class: 6.1
Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:
- R 61 May cause harm to the unborn child.
- R 20/22 Harmful by inhalation and if swallowed.
- R 33 Danger of cumulative effects.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 62 Possible risk of impaired fertility.

Safety Phrases:
- S 53 Avoid exposure - obtain special instructions before use.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 1319-46-6: Not available

Canada

CAS# 1319-46-6 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2A, D1B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 1319-46-6 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 1319-46-6 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 8/05/1998
Revision #7 Date 7/20/2009

Reviewed 2012.11.06 13:18:23 -05'00'

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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