

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 08/23/2013 Version 1.2

### **SECTION 1.Identification**

#### **Product identifier**

Product number 107381

Product name Lead(II) carbonate for analysis EMSURE® ACS

# Relevant identified uses of the substance or mixture and uses advised against

Identified uses Reagent for analysis

## Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | SDS Phone Support: +1-978-715-1335 | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to

4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### SECTION 2. Hazards identification

## **GHS Classification**

Acute toxicity, Category 4, Oral, H302

Acute toxicity, Category 4, Inhalation, H332

Reproductive toxicity, Category 1A, H360FD

Specific target organ systemic toxicity - repeated exposure, Category 2, Blood, Central nervous system,

Immune system, Kidney, H373

Acute aquatic toxicity, Category 1, H400 Chronic aquatic toxicity, Category 1, H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **GHS-Labeling**

Hazard pictograms







Signal Word Danger

Hazard Statements

H360FD May damage fertility. May damage the unborn child.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2

Product name Lead(II) carbonate for analysis EMSURE® ACS

H302 + H332 Harmful if swallowed or if inhaled.

H373 May cause damage to organs (Blood, Central nervous system, Immune system, Kidney)

through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

### **OSHA Hazards**

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

### Other hazards

None known.

## SECTION 3. Composition/information on ingredients

Formula PbCO₃ CO₃Pb (Hill)

CAS-No. 598-63-0 Molar mass 267.21 g/mol

## Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

Lead carbonate (>= 90 % - <= 100 % )

598-63-0

## **SECTION 4. First aid measures**

### **Description of first-aid measures**

Inhalation

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration.

Oxygen if necessary. Immediately call in physician.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing. Consult a physician.

Eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist.

Ingestion

After swallowing: immediately make victim drink water (two glasses at most). Consult a

physician.

Never give anything by mouth to an unconscious person.

## Most important symptoms and effects, both acute and delayed

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2

Product name Lead(II) carbonate for analysis EMSURE® ACS

The following applies to lead compounds in general: Due to the poor absorbability via the gastrointestinal tract, only very high doses lead to acute cases of intoxication. After a latency period of several hours, metallic taste, nausea, vomiting, and colics occur, in many instances followed by shock. Chronic uptake causes peripheral muscular weakness ("drop-wrist"), anemia, and central-nervous disorders. Women of child-bearing age should not be exposed to the substance over longer periods of time (observe critical threshold).

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

No information available.

## **SECTION 5. Fire-fighting measures**

#### Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

## Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

# Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

#### **Environmental precautions**

Do not empty into drains.

## Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## SECTION 7. Handling and storage

## Precautions for safe handling

Work under hood. Do not inhale substance/mixture.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2

Product name Lead(II) carbonate for analysis EMSURE® ACS

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage temperature: no restrictions.

# SECTION 8. Exposure controls/personal protection

# Exposure limit(s)

Ingredients

Basis Value Threshold Remarks

limits

Lead carbonate 598-63-0

ACGIH Time Weighted Average 0.05 mg/m³ Expressed as: as Pb

(TWA):

Z1A Time Weighted Average 0.05 mg/m³ Expressed as: as Pb

(TWA):

### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance. Work under hood. Do not inhale substance/mixture.

## Eye/face protection

Safety glasses

# Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

## Other protective equipment:

protective clothing

### Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## SECTION 9. Physical and chemical properties

Physical state solid

Color white

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2
Product name Lead(II) carbonate for analysis EMSURE® ACS

Odor odorless

Odor Threshold No information available.

pH ca. 5.8

at 50 g/l 68 °F (20 °C) (slurry)

Melting point 315 °C

(decomposition)

Boiling point No information available.

Flash point No information available.

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

Relative vapor density No information available.

Relative density 6.6 g/cm<sup>3</sup>

at 68 °F (20 °C)

Water solubility at 68 °F (20 °C)

practically insoluble

Partition coefficient: n-

Decomposition temperature

octanol/water

No information available.

No information available.

Autoignition temperature No information available.

Viscosity, dynamic No information available.

Explosive properties No information available.

Bulk density ca.1,300 kg/m³

# SECTION 10. Stability and reactivity

## Reactivity

See below

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2

Product name Lead(II) carbonate for analysis EMSURE® ACS

## Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

## Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapors with:

Fluorine

Exothermic reaction with:

Generates dangerous gases or fumes in contact with:

Nitric acid

#### Conditions to avoid

Temperatures above melting point.

## Incompatible materials

no information available

## Hazardous decomposition products

no information available

# **SECTION 11. Toxicological information**

# Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact, Ingestion

Acute oral toxicity

LDLO human: 571 mg/kg (RTECS)

absorption

Acute toxicity estimate: 500.1 mg/kg

Expert judgment

Acute inhalation toxicity

Symptoms: absorption

Acute toxicity estimate: 1.6 mg/l

Expert judgment CMR effects Teratogenicity:

May damage the unborn child. Positive evidence from human epidemiological studies.

Reproductive toxicity:

Suspected of damaging fertility.

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2

Product name Lead(II) carbonate for analysis EMSURE® ACS

Specific target organ systemic toxicity - repeated exposure

Target Organs: Blood, Central nervous system, Immune system, Kidney May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

## Carcinogenicity

IARC Group 2A: Probably carcinogenic to humans

Lead carbonate 598-63-0

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP Anticipated carcinogen.

Lead carbonate 598-63-0

ACGIH Confirmed animal carcinogen with unknown relevance to

humans.

Lead carbonate 598-63-0

### **Further information**

Danger of cumulative effects.

Other information

The following applies to lead compounds in general: Due to the poor absorbability via the gastrointestinal tract, only very high doses lead to acute cases of intoxication. After a latency period of several hours, metallic taste, nausea, vomiting, and colics occur, in many instances followed by shock. Chronic uptake causes peripheral muscular weakness ("drop-wrist"), anemia, and central-nervous disorders. Women of child-bearing age should not be exposed to the substance over longer periods of time (observe critical threshold).

Further data:

This substance should be handled with particular care.

# **SECTION 12. Ecological information**

### **Ecotoxicity**

No information available.

# Persistence and degradability

No information available.

## Bioaccumulative potential

No information available.

# Mobility in soil

No information available.

## Additional ecological information

We have no quantitative data concerning the ecological effects of this product.

Further information on ecology

Discharge into the environment must be avoided.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2

Product name Lead(II) carbonate for analysis EMSURE® ACS

## **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **SECTION 14. Transport information**

Land transport (DOT)

UN number UN 2291

Proper shipping name LEAD COMPOUND, SOLUBLE, N.O.S. (LEAD(II)

CARBONATE)

Class 6.1
Packing group III
Environmentally hazardous --

Air transport (IATA)

UN number UN 2291

Proper shipping name LEAD COMPOUND, SOLUBLE, N.O.S. (LEAD(II)

CARBONATE)

Class 6.1
Packing group III
Environmentally hazardous -Special precautions for user no

Sea transport (IMDG)

UN number UN 2291

Proper shipping name LEAD COMPOUND, SOLUBLE, N.O.S. (LEAD(II)

CARBONATE)

Class 6.1
Packing group III
Environmentally hazardous -Special precautions for user
EmS yes
F-A S-A

## **SECTION 15. Regulatory information**

#### **United States of America**

## **OSHA Hazards**

Carcinogen

Reproductive hazard

Teratogen

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2

Product name Lead(II) carbonate for analysis EMSURE® ACS

#### SARA 311/312 Hazards

Chronic Health Hazard

### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients

Lead carbonate 598-63-0

### **SARA 302**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

### **DEA List I**

Not listed

#### **DEA List II**

Not listed

## **US State Regulations**

## Massachusetts Right To Know

Ingredients

Lead carbonate

## Pennsylvania Right To Know

Ingredients

Lead carbonate

### **New Jersey Right To Know**

Ingredients

Lead carbonate

## California Prop 65 Components

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Ingredients

Lead carbonate

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 107381 Version 1.2

Product name Lead(II) carbonate for analysis EMSURE® ACS

### **Notification status**

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

#### **SECTION 16. Other information**

## Training advice

Provide adequate information, instruction and training for operators.

### Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed. H332 Harmful if inhaled.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated

exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date08/23/2013

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

All rights reserved. Millipore and the "M" Mark are registered trademarks of Merck KGaA, Darmstadt, Germany.