

**MATERIAL SAFETY DATA SHEET (MSDS)****ZIRCONIUM (IV) CARBONATE BASIC****1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE**

## Product identifiers

Product name : Zirconium(IV) carbonate hydroxide oxide  
CAS-No. : 57219-64-4

Product Coad: Z0221400500

**2. HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

## Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards - none

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

## Substances

Synonyms : Zirconium(IV) carbonatebasic

Zirconium basic carbonate

Formula : CH<sub>2</sub>O<sub>7</sub>Zr<sub>2</sub>

Molecular Weight : 308,47 g/mol

**4. FIRST AID MEASURES**

## Description of first aid measures

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Flush eyes with water as a precaution.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

no data available

**5. FIREFIGHTING MEASURES**

## Extinguishing media

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

Special hazards arising from the substance or mixture Carbon oxides, Zirconium oxides

Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

Further information The product itself does not burn.

**6. ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections For disposal see section 13.

**7. HANDLING AND STORAGE**

## Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end uses no data available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Control parameters

Components with workplace control parameters

## MATERIAL SAFETY DATA SHEET (MSDS)

### ZIRCONIUM (IV) CARBONATE BASIC

#### Exposure controls

Appropriate engineering controls  
 General industrial hygiene practice.

Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin 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 contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- a) Appearance Form: powder
  - b) Odour no data available
  - c) Odour Threshold no data available
  - d) pH no data available
  - e) Melting point/freezing Melting point/range: 135 °C point
  - f) Initial boiling point and no data available boiling range
  - g) Flash point not applicable
  - h) Evaporation rate no data available
  - i) Flammability (solid, gas) no data available
  - j) Upper/lower no data available flammability or explosive limits
  - k) Vapour pressure no data available
  - l) Vapour density no data available
  - m) Relative density no data available
  - n) Water solubility insoluble
  - o) Partition coefficient: n- no data available octanol/water
  - p) Autoignition no data available temperature
  - q) Decomposition no data available temperature
  - r) Viscosity no data available
  - s) Explosive properties no data available
  - t) Oxidizing properties no data available
- Other safety information  
 no data available

## 10. STABILITY AND REACTIVITY

Reactivity no data available  
 Chemical stability no data available  
 Possibility of hazardous reactions no data available  
 Conditions to avoid no data available  
 Incompatible materials Strong oxidizing agents  
 Hazardous decomposition products  
 Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

**MATERIAL SAFETY DATA SHEET (MSDS)****ZIRCONIUM (IV) CARBONATE BASIC**

Information on toxicological effects

Acute toxicity no data available

Skin corrosion/irritation no data available  
Serious eye damage/eye irritation no data available  
Respiratory or skin sensitization no data available  
Germ cell mutagenicity no data available  
Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
Reproductive toxicity no data available  
Specific target organ toxicity - single exposure no data available  
Specific target organ toxicity - repeated exposure no data available  
Aspiration hazard no data available  
Potential health effects  
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.  
Ingestion May be harmful if swallowed.  
Skin May be harmful if absorbed through skin. May cause skin irritation.  
Eyes May cause eye irritation.  
Additional Information RTECS: Not available

**12. ECOLOGICAL INFORMATION**

Toxicity no data available Persistence and degradability no data available  
Bioaccumulative potential no data available  
Mobility in soil no data available Results of PBT and vPvB assessment no data available  
Other adverse effects no data available

**13. DISPOSAL CONSIDERATIONS**

Waste treatment methods  
Product Offer surplus and non-recyclable solutions to a licensed disposal company.  
Contaminated packaging Dispose of as unused product.

**14. TRANSPORT INFORMATION**

Not Regulated

**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
Safety, health and environmental regulations/legislation specific for the substance or mixture  
no data available Chemical Safety Assessment no data available

**16. Other Information**

**Product Use:** Laboratory Reagent.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**ZIRCONIUM (IV) CARBONATE BASIC**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**