

## Scheda di sicurezza della Zirconia - Usa

Written by Vito Palumbo

Monday, 27 September 2010 08:51 - Last Updated Monday, 27 September 2010 09:44

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There are no translations available.

Scheda di sicurezza pubblicata sul sito web del

Centers for Disease Control and Prevention 1600 Clifton Rd. Atlanta, GA 30333, USA

che evidenzia la pericolosità della zirconia e raccomanda una serie di misure per salvaguardare la salute di chi si trova in contatto con tale lega.

<http://www.cdc.gov/niosh/npg/npgd0677.html>

[NIOSH](#)

□

[Pocket Guide to Chemical Hazards](#)

## Zirconium compounds (as Zr)

### Synonyms & Trade Names

Zirconium metal: Zirconium

Synonyms of other zirconium compounds vary depending upon the specific compound.

### CAS No.

7440-67-7 (Metal)

### RTECS No.

[ZH7070000 \(Metal\)](#)

### DOT ID & Guide

(powder, wet)

[170](#)

(scrap)

[135](#)

(powder, dry)

[135](#)

### Formula

Zr (Metal)

### Conversion

### IDLH

50 mg/m

3

(as Zr)

See:

[7440677](#)

### Exposure Limits

### NIOSH REL

\*: TWA 5 mg/m

3

ST 10 mg/m

3

[\*Note:

### OSHA PEL

†: TWA 5 mg/m

3

### Measurement Methods

### NIOSH

[7300](#)

[7300](#)

### OSHA

[ID121](#)

See:

[NMAM](#) or

[OSHA Methods](#)

### Physical Description

Metal: Soft, malleable, ductile, solid or gray to gold, amorphous powder.

### MW:

91.2

### BP:

6471 °F

MLT: 3375 °F

### Sol:

Insoluble

### VP:

0 mmHg (approx)

### IP:

NA

### Sp.Gr:

6.51 (Metal)

### Fl.P:

NA

### UEL:

NA

### LEL:

NA

Metal: Combustible, but solid form is difficult to ignite; however, powder form may ignite SPON

### Incompatibilities & Reactivities

Potassium nitrate, oxidizers [Note: Fine powder may be stored completely immersed in water.]

### Exposure Routes

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inhalation, skin and/or eye contact

### Symptoms

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in

### Target Organs

Skin, respiratory system

### Personal Protection/Sanitation

( [See protection codes](#) )

Recommendations regarding personal protective clothing vary depending upon the specific compound.

Recommendations regarding eye protection vary depending upon the specific compound.

Recommendations regarding washing the skin vary depending upon the specific compound.

Recommendations regarding the removal of personal protective clothing that becomes wet or contaminated vary depending upon the specific compound.

Recommendations regarding the daily changing of personal protective clothing vary depending upon the specific compound.

Recommendations regarding the need for eyewash or quick drench facilities vary depending upon the specific compound.

( [See procedures](#) )

**Eye:** Irrigate immediately

**Skin:** Soap wash

**Breathing:** Respiratory support

**Swallow:** Medical attention immediately

### Respirator Recommendations

## NIOSH/OSHA

**Up to 25 mg/m<sup>3</sup>** :

(APF = 5) Any quarter-mask respirator.

[Click here](#) for information on selection of N, R, or P filters.

**Up to 50 mg/m<sup>3</sup>** :

(APF = 10) Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, or P95).

[Click here](#) for information on selection of N, R, or P filters.

(APF = 25) Any powered, air-purifying respirator with a high-efficiency particulate filter.

(APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.

[Click here](#) for information on selection of N, R, or P filters.

(APF = 10) Any supplied-air respirator

(APF = 50) Any self-contained breathing apparatus with a full facepiece

## Emergency or planned entry into unknown concentrations or IDLH conditions:

(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

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### **Escape:**

(APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.

[Click here](#) for information on selection of N, R, or P filters.

Any appropriate escape-type, self-contained breathing apparatus

[Important additional information about respirator selection](#)