

Scheda di sicurezza della Zirconia - Usa

Scritto da Vito Palumbo

Lunedì 27 Settembre 2010 08:51 - Ultimo aggiornamento Lunedì 27 Settembre 2010 09:44

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)

FI.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

inhalation, skin and/or eye contact

Symptoms

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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/m³ :

(APF = 5) Any quarter-mask respirator.

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

Up to 50 mg/m³ :

(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 with a minimum flow rate of 30 L/min.

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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](#)