

## 化 学 品 安 全 技 术 说 明 书

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### MSDS标题

ZIRCONIUM HYDROXIDE MSDS报告

### 产品标题

氢氧化锆; 偏锆酸

### CAS号

14475-63-9

### 化学品及企业标识

## PRODUCT NAME

ZIRCONIUM HYDROXIDE

## NFPA

|  |   |
|--|---|
| Flammability                                       | 0 |
| Toxicity   | 2 |
| Body Contact                                       | 2 |
| Reactivity   | 0 |
| Chronic  | 2 |
| SCALE: Min/Nil=0 Low=1 Moderate=2 High=3 Extreme=4 |   |

## PRODUCT USE

Source of zirconium dioxide, zirconium sulfate; glass colourants.

## SYNONYMS

O4-H4-Zr, Zr(OH)4, "zirconium tetrahydroxide", "zirconium (IV) hydroxide", "zirconium (IV) hydroxide"

## CANADIAN WHMIS SYMBOLS

## EMERGENCY OVERVIEW

### RISK

Irritating to eyes, respiratory system and skin.

## POTENTIAL HEALTH EFFECTS

### ACUTE HEALTH EFFECTS

#### SWALLOWED

Accidental ingestion of the material may be damaging to the health of the individual. Because inorganic zirconium is poorly absorbed from the digestive tract, acute oral toxicity is low. Injection is much more dangerous, causing progressive depression until death.

#### EYE

This material can cause eye irritation and damage in some persons.

#### SKIN

This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition. Skin contact is not thought to have harmful health effects, however the material may still produce health damage following entry through wounds, lesions or abrasions. The external application of zirconium can cause nodules in the skin of the armpits. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

#### INHALED

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. Not normally a hazard due to non-volatile nature of product. Zirconium workers exposed to fume for 1-5 years

showed no abnormalities due to zirconium. Animal studies also reveal a low order of hazard from inhaled zirconium.

## **CHRONIC HEALTH EFFECTS**

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray. Zirconium can accumulate in the spleen. Oral administration has not been shown to cause any ill effects.

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