





compounds such as titanium oxide may be placed in the nuisance category. (Sax, Dangerous Properties of Industrial Materials, eighth edition).

Aluminum compounds have many commercial uses and are commonly found in industry. Many of these materials are active chemically and thus exhibit dangerous toxic and reactive properties. Inhalation of fine aluminum oxide particles is associated with Shaver's disease. (Sax, Dangerous Properties of Industrial Materials, eighth edition)

#### Acute Effects:

Inhalation: Inhalation of finely divided aluminum powder has been reported to cause pulmonary fibrosis. May cause irritation to the respiratory tract.

Ingestion: No acute health effects recorded.

Skin: May cause abrasive irritation.

Eye: May cause abrasive irritation.

#### Chronic Effects:

Inhalation: May cause pulmonary fibrosis.

Ingestion: May be implicated in Alzheimer's disease.

Skin: No chronic health effects recorded.

Eye: No chronic health effects recorded.

Target Organs: No target organs recorded.

Medical Conditions Generally Aggravated by Exposure: Pre-existing respiratory disorders.

Routes of Entry: Inhalation, ingestion, skin, eyes.

Carcinogenicity: NTP? No

IARC Monographs? No

OSHA Regulated? No

#### EMERGENCY AND FIRST AID PROCEDURES:

**INHALATION:** Remove victim to fresh air; keep warm and quiet. Give oxygen if breathing is difficult and seek medical attention if symptoms persist.

**INGESTION:** Give 1-2 glasses of milk or water and induce vomiting. Seek medical attention if symptoms persist. Never induce vomiting or give anything by mouth to an unconscious person.

**SKIN:** Remove contaminated clothing. Brush material off skin and wash affected area with mild soap and water. Seek medical attention if symptoms persist.

**EYE:** Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

## **Sec VI      REACTIVITY DATA**

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Stability: Stable

Conditions to Avoid: None

Incompatibility (Material to Avoid): None recorded

Hazardous Decomposition Products: None recorded.

Hazardous Polymerization: Will not occur.

## **Sec VII      SPILL OR LEAK PROCEDURES**

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**Steps to Be Taken in Case Material Is Released or Spilled:** Wear appropriate respiratory and protective equipment specified in Section VIII - Special Protection Information. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust. Use non-sparking tools. **Waste Disposal Method:** Dispose of in accordance with Local, State and Federal regulations.

## **Sec VIII SPECIAL PROTECTION INFORMATION**

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Respiratory Protection: NIOSH approved respirator.

Ventilation: Use local exhaust to maintain exposure at or below the PEL, TLV. Handle in a controlled environment. General exhaust is recommended.

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses

Other Protective Equipment: Protective gear suitable to prevent contamination.

## **Sec IX SPECIAL PRECAUTIONS**

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Precautions to Be Taken in Handling and Storage: Store in cool, dry area. Store in tightly sealed container. Wash thoroughly after handling. Handle and store in a controlled environment.

Work Practices: Implement engineering and work practices controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow off clothing or skin with compressed air.