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Material Safety Data Sheet

Identity: Titanium dioxide Sputtering Target

Formula: TiO₂

SECTION I - GENERAL INFORMATION

Manufacturer: Advanced Engineering Materials Limited (AEM)

The information below is believed to be accurate and represents the best information available to AEM. However, AEM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

SECTION II - PRODUCT INFORMATION/HAZARDOUS INGREDIENTS

Chemical: Metal Oxide

CAS #: 13463-67-7

%:100

PEL: NE

TLV: NE

SECTION III - FIRE AND EXPLOSION DATA

Extinguishing Media: N/A; Use suitable extinguishing agent for surrounding type of fire.

Special Fire Fighting Procedures:

Firefighters should wear protective equipment and self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

Unusual Fire and Explosion Hazards:

May generate toxic fumes if involved in a fire.

SECTION IV - HEALTH HAZARD DATA

Routes of entry:

Inhalation: Likely

Skin: No

Ingestion: No



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Inhalation:

Acute: Dust may cause irritation to the upper respiratory tract and mucous membranes.

Chronic: May cause slight lesions in the lungs, lung fibrosis, and emphysema.

Ingestion:

Acute: No acute health effects recorded.

Chronic: No chronic effects recorded.

Skin:

Acute: Prolonged or repeated contact may cause irritation.

Chronic: No chronic health effects recorded.

Medical Conditions Aggravated: Pre-existing respiratory disorders.

Emergency and First Aid Procedures

Skin: remove contaminated clothing, brush material off the skin, wash affected area with mild soap and water, and seek medical attention if symptoms persist.

Eye: flush with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if condition persists.

Inhalation: remove victim to fresh air, keep warm and quiet, give oxygen if breathing is difficult and seek medical attention.

Ingestion: give 1 – 2 glasses of milk or water and induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

SECTION V – REACTIVITY DATA

Stability: None

Conditions to Avoid: None

Incompatibility: None recorded.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: none recorded.

SECTION VI – PRECAUTIONS FOR SAFE HANDLING AND USE
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Respiratory Protection:

NIOSH/MSHA approved respirator.

Ventilation:

Local exhaust to maintain a concentration at or below the PEL, TLV.



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Handling and Storage:

Store in a sealed container in cool dry area. Store away from oxidizers. Wash thoroughly after handling.

Waste Disposal:

Dispose of in accordance with all applicable Federal, State, and Local environmental regulations.

Protective clothing: Rubber gloves, ANSI approved safety goggles, and proper clothing

Other Precautions: Wear protective gear suitable to prevent contamination. Implement engineering and work practice controls to maintain concentration of exposure at low levels. Use good housekeeping and sanitation levels. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.