



# SAFETY DATA SHEET

**MATERION**

## 1. Identification

**Product identifier** Tungsten oxide-Thorium nitrate

### Other means of identification

**SDS number** 2KF

**Materion Code** 2KF

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** Materion Advanced Chemicals Inc.

**Address**  
407 N 13th Street  
1316 W. St. Paul Avenue  
Milwaukee, WI 53233  
United States

**Telephone** 414.212.0257

**E-mail** advancedmaterials@materion.com

**Contact person** Noreen Atkinson

**Emergency phone number** Chemtrec 800.424.9300

## 2. Hazard(s) identification

**Physical hazards** Oxidizing solids Category 2

**Health hazards** Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, repeated exposure Category 2

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 2

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Warning

**Hazard statement** May intensify fire; oxidizer. Harmful if swallowed or if inhaled. Causes skin irritation. Suspected of damaging fertility. May cause harm to breast-fed children. Causes serious eye irritation.

### Precautionary statement

**Prevention** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wear protective gloves/eye protection/face protection. Use only outdoors or in a well ventilated area. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Avoid contact during pregnancy/while nursing.

**Response** If skin irritation occurs, seek medical advice/attention. Take off contaminated clothing and wash before reuse. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of soap and water. Call a physician if symptoms develop or persist.

<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store away from incompatible materials.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

### 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
Tungsten oxide-Thorium nitrate			100

### 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
<b>Ingestion</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth thoroughly.
<b>Most important symptoms/effects, acute and delayed</b>	Irritation of eyes and mucous membranes. Prolonged exposure may cause chronic effects.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water Spray or Fog. Foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Not applicable.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	During fire, gases hazardous to health may be formed.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Use protective gloves, goggles and suitable protective clothing.
<b>Methods and materials for containment and cleaning up</b>	Not available.
<b>Environmental precautions</b>	Do not contaminate water sources or sewer. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

<b>Precautions for safe handling</b>	Not available.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in cool, dry place.

### 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	This substance has no PEL, TLV, or other recommended exposure limit. Not available.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear eye/face protection. Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Chemical resistant gloves.

**Other** Wear suitable protective clothing and gloves.

**Respiratory protection** In case of inadequate ventilation use suitable respirator.

**Thermal hazards** Not available.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.

**Form** Not available.

**Color** Not available.

**Odor** Not available.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Not available.

**Possibility of hazardous reactions** Not available.

**Conditions to avoid** Not available.

**Incompatible materials** Not available.

**Hazardous decomposition products** Not available.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system.  
**Skin contact** Causes skin irritation.  
**Eye contact** Causes serious eye irritation.  
**Ingestion** Due to lack of data the classification is not possible.

**Symptoms related to the physical, chemical and toxicological characteristics** Not available.

### Information on toxicological effects

**Acute toxicity** Not available.

**Skin corrosion/irritation** Not available.

**Serious eye damage/eye irritation** Not available.

### Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** Not available.

**Germ cell mutagenicity** Not available.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child. May cause harm to breastfed babies.

**Specific target organ toxicity - single exposure** Respiratory tract irritation.

**Specific target organ toxicity - repeated exposure** May cause damage to organs ( ) through prolonged or repeated exposure.

**Aspiration hazard** Not available.

## 12. Ecological information

**Ecotoxicity** No ecotoxicity data noted for the ingredient(s).

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

**Waste from residues / unused products** Not available.

**Contaminated packaging** Not available.

## 14. Transport information

### DOT

UN number	UN2912
UN proper shipping name	Radioactive material, low specific activity (LSA-I) non fissile or fissile-excepted (Tungsten oxide-Thorium nitrate)
Transport hazard class(es)	
Class	7
Subsidiary risk	-
Packing group	Not available.
Special precautions for user	Not available.

### IATA

UN number	UN2912
UN proper shipping name	Radioactive material, low specific activity (LSA-I) non fissile or fissile-excepted (Tungsten oxide-Thorium nitrate)
Transport hazard class(es)	
Class	7
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	No.
Special precautions for user	Not available.

### IMDG

UN number	UN2912
UN proper shipping name	Radioactive material, low specific activity (LSA-I) non fissile or fissile-excepted (Tungsten oxide-Thorium nitrate)
Transport hazard class(es)	
Class	7
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Not available.

### DOT; IATA; IMDG



## 15. Regulatory information

### US federal regulations

#### Toxic Substances Control Act (TSCA)

##### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**            No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**            Not regulated.

**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	01-14-2019
<b>Version #</b>	01
<b>Disclaimer</b>	Not available.