# SAFETY DATA SHEET



#### **Tantalum Solid Metal**

### **Section 1. Identification**

**GHS** product identifier

: Tantalum Solid Metal

Other means of identification

Not available.

**Product type** 

: Massive metal.

Relevant identified uses of the substance or mixture and uses advised against

**Material uses** 

: Mechanical Engineering. Metal-working Industry.

Electrical Industry and Electronics. Chemical Processing Industry.

**Distributor** 

: The Rembar Company, LLC

67 Main Street

Dobbs Ferry, NY 10522 Telephone: 914-693-2620

**Emergency telephone** number (with hours of : GENERAL INFORMATION - 914-693-2620 [9:00 a.m - 5:00 p.m EST]

operation)

e-mail address of person

: info@rembar.com

responsible for this SDS

### Section 2. Hazards identification

**OSHA/HCS** status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

**GHS** label elements

Signal word

: No signal word.

**Hazard statements** 

: No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** : Not applicable. : Not applicable. Response : Not applicable. **Storage Disposal** : Not applicable.

Hazards not otherwise

classified

: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Under normal conditions of use this product is non-hazardous. However, if this product is ground or otherwise

processed those ingredients mentioned in Section 3 could be generated.

# Section 3. Composition/information on ingredients

Substance/mixture

: Substance

Other means of identification

: Not available.

**CAS** number/other identifiers

**CAS** number : 7440-25-7

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# Section 3. Composition/information on ingredients

Product code : Not available

Ingredient name	%	CAS number
Tantalum	99.95 - 99.999	7440-25-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** : Get medical attention if any damage to the eye is caused by the metal.

**Inhalation** : Not applicable.

**Skin contact**: Flush contaminated skin with plenty of water. Cuts should be treated promptly and

covered.

**Ingestion**: Not applicable.

#### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact : Not applicable.

Inhalation : Not applicable.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion**: Not applicable.

#### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically.

Specific treatments : No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Dry powder type agents specially designed for metal powder fires.

Unsuitable extinguishing

media

: Do not use water jet. Carbon dioxide (CO<sub>2</sub>).

Specific hazards arising from the chemical

: Dust and Fumes from this product may be a fire and explosion hazard when exposed to high temperatures or ignition sources. Particle size and dispersion in air determine reactivity.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: metal oxide/oxides

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### Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: No special protection is required.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**: No specific hazard.

#### Methods and materials for containment and cleaning up

**Small spill** 

: Restack safely. Take care with items that are sharp or heavy.

Large spill

Restack safely. Take care with items that are sharp or heavy. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Take care with items that are sharp or heavy.

Advice on general occupational hygiene

: Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any

**Conditions for safe storage,** : Store in accordance with local regulations.

including any incompatibilities

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Dust OSHA PEL (United States, 6/2010). TWA: 5 mg/m³ 8 hours.

Appropriate engineering controls

: No special ventilation requirements.

**Environmental exposure** 

: Not applicable.

controls

### **Individual protection measures**

**Hygiene measures**: Wash thoroughly after handling.

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### Section 8. Exposure controls/personal protection

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

**Hand protection** : Use strong, cut-resistant gloves suitable for handling metals.

**Body protection** : Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Not applicable. **Respiratory protection** 

# Section 9. Physical and chemical properties

**Appearance** 

: Solid. **Physical state** 

Bar. / Billet. / Chips. / Disc. / Foil. / Ingot. / Plate. / Rings. / Rod. / Scrap. / Sheet. /

Sputtering Targets. / Strip. / Tube. / Wire.

Color : Gray.

: Odorless. Odor

**Odor threshold** Not available. : Not applicable. Ha

: 2996°C (5424.8°F) **Melting point** 

: 5425°C (9797°F) **Boiling point** 

: Not applicable. Flash point

: Not available. **Burning time** 

: Not available. **Burning rate** : Not applicable. **Evaporation rate** 

Flammability (solid, gas) : Not available.

Lower and upper explosive

(flammable) limits

: Not applicable.

Vapor pressure : Not applicable. Vapor density : Not applicable.

16.6 **Relative density** 

Solubility : Not available. Solubility in water : Not available. Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** : Not applicable. **Decomposition temperature** : Not available. **SADT** Not available.

**Viscosity** : Not applicable.

### Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**Chemical stability** : The product is stable.

Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

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# Section 10. Stability and reactivity

#### **Conditions to avoid**

: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation.

#### Incompatible materials

: Evolves hydrogen on contact with acids. Risk of formation of explosive hydrogen-air

# Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Not available.

### **Irritation/Corrosion**

Not available.

#### **Sensitization**

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

# Information on the likely routes of exposure

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: Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Eye contact** : Not applicable. **Inhalation** : Not applicable.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion**: Not applicable.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

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# Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Not available.

### Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

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# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according

to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

# Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not listed

**Clean Air Act Section 602** 

**Class I Substances** 

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

Class II Substances

**DEA List I Chemicals** (Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Not applicable.

Composition/information on ingredients

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# **Section 15. Regulatory information**

Name			Sudden release of pressure	Reactive	(acute) health	Delayed (chronic) health hazard
Tantalum	99.95 - 99. 999	Yes.	No.	No.	No.	No.

#### **State regulations**

Massachusetts : The following components are listed: TANTALUM

New York : None of the components are listed.

New Jersey : The following components are listed: TANTALUM

Pennsylvania : The following components are listed: TANTALUM

#### California Prop. 65

The California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) requires that the Governor of California publish a list of chemicals known to the State to cause cancer or reproductive harm.

No Proposition 65 chemicals are intentionally added to this product; however, components used in the manufacture of this product may contain minor trace amounts of inherent naturally occurring elements (such as, but not limited to, arsenic, beryllium, cadmium, cobalt, lead, mercury, nickel, and radionuclides) that are on the Governor's Proposition 65 list.

### **Canada inventory**

### **International regulations**

International lists

: All components are listed or exempted.

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

**Philippines inventory (PICCS)**: All components are listed or exempted. **Taiwan inventory (CSNN)**: All components are listed or exempted.

Chemical Weapons
Convention List Schedule

**I Chemicals** 

: Not listed

**Chemical Weapons Convention List Schedule** 

**II Chemicals** 

: Not listed

**Chemical Weapons Convention List Schedule** 

: Not listed

Convention List Schedule III Chemicals

### Section 16. Other information

#### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** 

Date of issue/Date of revision : 8/7/2013. Date of previous issue : No previous validation. Version : 1 8/9

### Section 16. Other information



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#### **History**

Date of printing : 8/7/2013.

Date of issue/Date of : 8/7/2013.

revision

Date of previous issue : No previous validation.

Version :

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

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