# MATERION

# PRODUCT INFORMATION SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of the substance **Tantalum Pieces** 

**Identification number** 231-135-5 (EC number)

Registration number **Document number** H02 **Synonyms** None.

**Issue date** 29-April-2022

**Version number** 

1.3. Details of the supplier of the product information sheet

**Supplier** 

Company name Materion Newton Inc. **Address** 6070 Parkland Boulevard Mayfield, Heights, OH 44124

**United States** 

Division

**Telephone** 1+216.383.4019

e-mail ehs@materion.com **Contact person** Theodore Knudson

1.4. Emergency telephone See Section 16.

number

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

**Identified uses** Other: Manufacture of medical and defense equipment Scientific research and development

Manufacture of computer, electronic and optical products, electrical equipment

Uses advised against Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Supplier

**Company name** Materion Newton Inc. **Address** 6070 Parkland Boulevard

Mayfield, Heights, OH 44124

**United States** 

**Division** 

**Telephone** 1+216.383.4019

e-mail ehs@materion.com **Contact person** Theodore Knudson

1.4. Emergency telephone See Section 16.

number

**SECTION 2: Hazards identification** 

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Hazard summary** Exposure to powder or dusts may be irritating to eyes, nose and throat. Not classified for health

hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health

effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

**Hazard pictograms** None. Signal word None.

**Hazard statements** The substance does not meet the criteria for classification.

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**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

Store away from incompatible materials. **Storage** 

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Supplemental label

information

For further information, please contact the Product Stewardship Department at +1.216.383.4019.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

**General information** 

| Chemical name | %       | CAS-No. / EC<br>No. | REACH Registration No. | Index No. | Notes |
|---------------|---------|---------------------|------------------------|-----------|-------|
| Tantalum      | 100     | 7440-25-7           | -                      | -         |       |
| Classificat   | tion: - | 231-135-5           |                        |           |       |

## **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. **Eye contact** Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur. 4.2. Most important Dusts may irritate the respiratory tract, skin and eyes.

symptoms and effects, both

acute and delayed

4.3. Indication of any

immediate medical attention and special treatment

needed

Not available.

## **SECTION 5: Firefighting measures**

**General fire hazards** No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Dry sand, sodium chloride powder, graphite powder or Met-L-X powder.

Unsuitable extinguishing

media

Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or

mixture

This product is not flammable.

5.3. Advice for firefighters

**Special protective** equipment for firefighters

Use protective equipment appropriate for surrounding materials.

Special firefighting

procedures

Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the PIS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the PIS.

6.2. Environmental Avoid discharge into drains, water courses or onto the ground.

precautions

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## 6.3. Methods and material for containment and cleaning up

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the PIS.

6.4. Reference to other sections

For personal protection, see section 8 of the PIS. For waste disposal, see section 13 of the PIS.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

7.2. Conditions for safe storage, including any incompatibilities

Observe good industrial hygiene practices.

Store away from incompatible materials (see Section 10 of the SDS).

Not available. 7.3. Specific end use(s)

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

**Belgium. Exposure Limit Values** 

| Material                 | Туре | Value   |  |
|--------------------------|------|---------|--|
| Tantalum Pieces          | TWA  | 5 mg/m3 |  |
| Components               | Туре | Value   |  |
| Tantalum (CAS 7440-25-7) | TWA  | 5 mg/m3 |  |

No biological exposure limits noted for the ingredient(s).

Follow standard monitoring procedures.

**Biological limit values** 

**Recommended monitoring** 

procedures

**Derived no effect levels** 

(DNELs)

Not available.

**Predicted no effect** concentrations (PNECs) Not available.

## 8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

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

**General information** 

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear approved safety glasses, goggles, face shield and/or welder's helmet when risk of eye injury is present, particularly during operations that generate dust, mist or fume.

Skin protection

- Hand protection

Wear gloves to prevent metal cuts and skin abrasions during handling.

- Other Wear suitable protective clothing. Wear respirator with dust filter. **Respiratory protection** 

Thermal hazards

**Hygiene measures** 

Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

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Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Solid. **Form** Solid. Colour Dark grey. Odour None.

**Odour threshold** Not applicable. Not applicable.

Melting point/freezing point 2996 °C (5424,8 °F) / Not applicable.

Initial boiling point and

boiling range

Not applicable.

Not applicable. Flash point **Evaporation rate** Not applicable. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit -

upper (%)

Not applicable.

**Explosive limit - lower (** 

%)

Not applicable.

Explosive limit – upper

(%)

Not applicable.

Vapour pressure Not applicable. Vapour density Not applicable. Relative density Not applicable.

Solubility(ies)

Solubility (water) Insoluble **Partition coefficient** Not applicable.

(n-octanol/water)

**Auto-ignition temperature** Not applicable. **Decomposition temperature** Not applicable. Viscosity Not applicable. **Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information

14,49 g/cm3 Density **Flammability** Not applicable.

**Molecular formula** Ta

Molecular weight 180,95 g/mol

## **SECTION 10: Stability and reactivity**

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

10.4. Conditions to avoid Contact with incompatible materials. 10.5. Incompatible materials Strong oxidising agents. Fluorine.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

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# **SECTION 11: Toxicological information**

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Skin contact Dust or powder may irritate the skin.

**Eye contact** Dust may irritate the eyes.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

**Symptoms** None known.

11.1. Information on toxicological effects

**Acute toxicity** None known.

Skin corrosion/irritation Not likely, due to the form of the product.

Serious eye damage/eye

irritation

None known.

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible. Specific target organ toxicity Due to partial or complete lack of data the classification is not possible.

- single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity

- repeated exposure

**Aspiration hazard** Mixture versus substance

information

Not an aspiration hazard. No information available.

Other information Not available.

# **SECTION 12: Ecological information**

12.1. Toxicity Due to partial or complete lack of data the classification for hazardous to the aquatic environment,

is not possible.

12.2. Persistence and

degradability

No data is available on the degradability of this substance.

12.3. Bioaccumulative

potential

No data available.

**Partition coefficient** 

n-octanol/water (log Kow)

Not available.

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and

vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

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disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

methods/information

Material name: Tantalum Pieces

Special precautions Dispose in accordance with all applicable regulations.

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## **SECTION 14: Transport information**

**ADR** 

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

**ADN** 

14.1. - 14.6.: Not regulated as dangerous goods.

**IATA** 

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG** 

14.1. - 14.6.: Not regulated as dangerous goods.

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Tantalum (CAS 7440-25-7)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

## **Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended.

**National regulations** Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

List of abbreviations Not available. References Not available.

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Not applicable.

**Training information Further information** 

Follow training instructions when handling this material.

Transportation Emergency

Call Chemtrec at: US: 800,424,9300

International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402

Chemtrec's toll free, mobile-enabled number in Germany - 0800 1817059

South Korea Toll-free Number - 080-880-0468

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