

SAFETY DATA SHEETS

According to the UN GHS revision 9

Version: 1.0

Creation Date: July 15, 2019 Revision Date: July 15, 2019

SECTION 1: Identification

1.1 **GHS** Product identifier

Product name **Tantalum**

1.2 Other means of identification

Product number

Other names TANTALUM;

1.3 Recommended use of the chemical and restrictions on use

Industrial and scientific research use. **Identified uses**

Uses advised against no data available

1.4 Supplier's details

Company Shanghai Yansheng Internet Technology Co., Ltd Address

513, A3 / F, green space future center, Fengxian District,

Shanghai, 201400, China

+86-4000-6969-66 **Telephone**

1.5 **Emergency phone number**

Emergency phone

number

+86-4000-6969-66

Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT Service hours

+8 hours).

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Flammable solids, Category 1

2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word Danger

Hazard statement(s) H228 Flammable solid

H252 Self-heating in large quantities; may catch fire

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. **Prevention**

P240 Ground and bond container and receiving equipment. P241 Use explosion-proof [electrical/ventilating/lighting/...]

equipment.

Tantalum Page 1 of 7 P280 Wear protective gloves/protective clothing/eye

protection/face protection/hearing protection/... P370+P378 In case of fire: Use ... to extinguish.

Response P370 Storage none Disposal none

2.3 Other hazards which do not result in classification

no data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Tantalum	Tantalum	7440-25-7	231-135-5	100%

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled

Fresh air, rest.

Following skin contact

Remove contaminated clothes. Rinse and then wash skin with water and soap.

Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

Following ingestion

Rinse mouth.

4.2 Most important symptoms/effects, acute and delayed

no data available

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

no data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 Specific hazards arising from the chemical

Combustible. May ignite spontaneously on contact with air. Finely dispersed particles form explosive mixtures in air.

5.3 Special protective actions for fire-fighters

Use dry powder, dry sand, special powder. NO carbon dioxide, foam, water. In case of fire: keep drums, etc., cool by spraying with water. NO direct contact with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all ignition sources. Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Cover the spilled material with dry inert

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absorbent. Vacuum spilled material with specialist equipment. Then store and dispose of according to local regulations.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

NO open flames, NO sparks and NO smoking. Closed system, dust explosion-proof electrical equipment and lighting. Prevent deposition of dust. Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Fireproof. Separated from strong oxidants and halogens.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

MAK: carcinogen category: 3A; pregnancy risk group: C

Biological limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety spectacles.

Skin protection

Protective gloves.

Respiratory protection

Avoid inhalation of dust.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties and safety characteristics

Physical state wire

Colour no data available
Odour no data available
Melting point/freezing 2996°C(lit.)

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point

Boiling point or initial 5425°C(lit.)

boiling point and boiling

range

Flammability no data available Lower and upper no data available

explosion

limit/flammability limit

Flash point >250°C Auto-ignition 572°F

temperature

Decomposition no data available

temperature

pH no data available
Kinematic viscosity no data available
Solubility no data available
Partition coefficient n-

octanol/water

Vapour pressure

<0.01 mm Hg (537.2 °C)

Density and/or relative

elative 16.69g/cm3(lit.)

density

Relative vapour density no data available **Particle characteristics** no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

Dust explosion possible if in powder or granular form, mixed with air.Reacts with halogens and oxidants. This generates fire and explosion hazard.

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

Acute toxicity

• Oral: no data available

• Inhalation: no data available

• Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

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no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

May cause mechanical irritation.

STOT-repeated exposure

no data available

Aspiration hazard

A nuisance-causing concentration of airborne particles can be reached quickly when dispersed.

SECTION 12: Ecological information

12.1 Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN Number

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ADR/RID: UN3089 (For reference only, please check.)

IMDG: UN3089 (For reference only, please check.)

IATA: UN3089 (For reference only, please check.)

14.2 **UN Proper Shipping Name**

ADR/RID: METAL POWDER, FLAMMABLE, N.O.S. (For reference only, please check.)

IMDG: METAL POWDER, IATA: METAL POWDER, FLAMMABLE, N.O.S. (For FLAMMABLE, N.O.S. (For reference only, please check.) reference only, please check.)

14.3 **Transport hazard class(es)**

ADR/RID: 4.1 (For reference IMDG: 4.1 (For reference only, please check.)

only, please check.)

IATA: 4.1 (For reference only, please check.)

14.4 Packing group, if applicable

ADR/RID: II (For reference only, please check.)

IMDG: II (For reference only, please check.)

IATA: II (For reference only, please check.)

14.5 **Environmental hazards**

ADR/RID: No IMDG: No IATA: No

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in 15.1 question

Chemical name	Common names and synonyms	CAS number	EC number
Tantalum	Tantalum	7440-25-7	231-135-5
European Invento (EINECS)	Listed.		
EC Inventory	Listed.		
United States Tox	Listed.		
China Catalog of	Not Listed.		
New Zealand Inve	Listed.		
Philippines Inven (PICCS)	Listed.		
Vietnam National	Listed.		
Chinese Chemical (China IECSC)	Listed.		
Korea Existing Cl	Listed.		

SECTION 16: Other information

Information on revision

Creation Date July 15, 2019 July 15, 2019 **Revision Date**

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

• IMDG: International Maritime Dangerous Goods

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- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

Other Information

Combustion in a confined space may turn into detonation.

Any questions regarding this SDS, Please send your inquiry to sds@xixisys.com

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.

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