



# Safety Data Sheet

Skyspring Nanomaterials, Inc.

www.ssnano.com

Revision Date: 01/22/2016

## **1 Identification of substance:**

**Product name:** Tantalum(V) Carbide

**Product number:** 7345DX

**Manufacturer/Supplier:**

SkySpring Nanomaterials, Inc.

2935 Westhollow Dr., Houston, TX 77082, USA

Phone: 281-870-1700, Fax: 281-870-8002, Email: sales@ssnano.com

## **2 Composition/Information on ingredients:**

**Formula:** TaC

**Molecular Weight:** 192.96

**CAS No.:** 12070-06-3

**EINECS Number:** 235-118-3

## **3 Hazards identification**

Emergency Overview

OSHA Hazards

No known OSHA hazards

Not a dangerous substance according to GHS.

## **4 First aid measures**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## **5 Fire fighting measures**

**Suitable extinguishing media**

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

**Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions - Tantalum Oxides

## **6 Accidental release measures**

**Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **7 Handling and storage**

### **Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

### **Storage**

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

## **8 Exposure controls and personal protection**

### **Personal protective equipment**

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

### **Appearance**

Form: powder

Colour: beige

### **Safety data**

pH: no data available

Melting point no data available.

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Vapour pressure no data available

Density 8.2 g/mL at 25 °C (77 °F)

Water solubility no data available

## **10 Stability and reactivity**

### **Storage stability**

Stable under recommended storage conditions.

### **Conditions to avoid**

no data available

### **Materials to avoid**

Strong acids agents

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Tantalum Oxides

## **11 Toxicological information**

### **Acute toxicity**

Oral LD50  
LD50 Oral-rat-8,000 mg/kg  
Inhalation LC50  
no data available  
Dermal LD50  
no data available  
Other information on acute toxicity  
no data available  
Skin corrosion/irritation  
no data available  
Serious eye damage/eye irritation  
no data available  
Respiratory or skin sensitization  
no data available  
Germ cell mutagenicity  
no data available

### **Additional Information**

RTECS: WW5855000

## **12 Ecological information:**

### **Toxicity**

no data available

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

no data available

## **13 Disposal considerations**

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

### **Contaminated packaging**

Dispose of as unused product.

## **14 Transport information**

### **DOT (US)**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

## **15 Regulations**

### **OSHA Hazards**

No known OSHA hazards

### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act

**Pennsylvania Right To Know Components**

Ditantalum pentaoxide

CAS-No.1314-61-0

Revision Date

2007-03-01

**New Jersey Right To Know Components**

Ditantalum pentaoxide

CAS-No.1314-61-0

Revision Date

2007-03-01

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16 Other information:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.