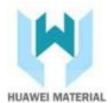
SAFETY DATA SHEET



Revision date 16-July-2020

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

CAS No. Product Name Molecular Formula 12033-62-4 Tantalum nitride TaN

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

Recommended use Used advised against

Details of the supplier Company name Address

Website Telephone Fax

Emergency telephone number Chemtrec 0086-731-85124338

Section 2: HAZARDS IDENTIFICATION

The substance is not classified according to the Globally Harmonized System (GHS).

Label Elements

- · GHS label elements Not applicable
- Hazard pictograms Not applicable
- · Signal word Not applicable
- · Hazard statements Not applicable
- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances CAS No. Description 12033-62-4 Tantalum nitride Identification number(s) EC number: 234-788Laboratory chemicals. Not intended for diagnostic or therapeutic use.

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Section 4: FIRST AID MEASURES

Description of first aid measures	
General advice	Consult a physician if necessary.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Skin Contact	Wash skin with soap and water.
Eye contact	Wash with plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water.
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.None reasonably foreseeable. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture No further relevant information available. Advice for firefighters Protective equipment: No special measures required

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Personal

precautions For emergency responders Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8.

Environmental precautions

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

Methods and material for containment and cleaning up

Methods for containment Methods for cleaning up Methods for cleaning up

Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handlingHandle in accordance with good industrial hygiene and safety practice.General Hygiene ConsiderationsHandle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Permissible Exposure Limits	0.5 mg/m3 as HfN
Threshold Limit Value	0.5 mg/m3 as HfN
Special Equipment	None
Respiratory Protection	Dust Respirator
Protective Gloves	Rubber gloves
Eye Protection	Safety glasses or
Body Protection	Protective work clo

0.5 mg/m3 as HfN, long-term value
0.5 mg/m3 as HfN, long-term value
None
Dust Respirator
Rubber gloves
Safety glasses or goggles
Protective work clothing. Wear close-toed

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color
Form
Odor
Water Solubility
Boiling Point
Melting Point
Flash Point
Autoignition Temperature
Density

Gray Powder Odorless Insoluble 2950°C Not determined N/A N/A 14.3 g/cm³

Section 10: STABILITY AND REACTIVITY

ReactivityStable under recommended storage conditionsReacts WithNo dangerous reactions known.Incompatible ConditionsOxidizing agentsHazardous Decomposition Products:No dangerous decomposition products known

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: When used and handled according to specifications,

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity No further relevant information available.

Persistence and degradability No information available.

Bioaccumulation

Mobility PBT and vPvB assessment

Other adverse effects

No information available

No information available.

No information available. No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not reuse container

Section 14: TRANSPORT INFORMATION

	<u>RID / ADR</u>	<u>IMDG</u>	<u>ICAO (air) / IATA</u>
	Not regulated	Not regulated	Not regulated
14.1 UN/ID no	-	-	-
14.2 Proper shipping name	-	-	-
14.3 Hazard Class	-	-	-
Subsidiary hazard class / Labels	-	-	-
14.4 Packing Group	-	-	-
14.5 Environmental Hazard	-	-	-
14.6 Special Provisions	-	-	-

Section 15: REGULATORY INFORMATION

Sec 302 Extremely Hazardous: N/A Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: N/A

Section 16: OTHER INFORMATION

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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