

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (5N) 99.999% Neodymium Titanate Nd<sub>4</sub>O<sub>16</sub>Ti<sub>5</sub>

**Product Code:** ND-TAT-05-P

**CAS Number:** N/A

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

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## SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Formula : Nd<sub>4</sub>O<sub>16</sub>Ti<sub>5</sub>

Molecular weight : 1,072.29 g/mol

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## SECTION 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.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

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## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

No data available

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

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

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## **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

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

Keep in a dry place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

Components with workplace control parameters  
Contains no substances with occupational exposure limit values.  
Exposure controls  
Appropriate engineering controls  
General industrial hygiene practice.  
Personal protective equipment  
Eye/face protection  
Safety glasses  
Skin protection  
For prolonged or repeated contact use protective gloves.  
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).  
Control of environmental exposure  
Do not let product enter drains

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Form: powder  
Odour No data available  
Odour Threshold No data available  
pH No data available  
Melting point/freezing point: No data available  
Initial boiling point and boiling range: No data available  
Flash point Not applicable  
Evaporation rate No data available  
Flammability (solid, gas) No data available  
Upper/lower flammability or explosive limits No data available  
Vapour pressure No data available  
Vapour density No data available  
Relative density No data available  
Water solubility No data available  
Partition coefficient: octanol/water No data available  
Auto-ignition temperature No data available  
Decomposition temperature No data available  
Viscosity No data available  
Explosive properties No data available  
Oxidizing properties No data available

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity  
No data available  
Chemical stability  
Stable under recommended storage conditions.  
Possibility of hazardous reactions  
No data available  
Conditions to avoid

No data available  
Incompatible materials  
Strong oxidizing agents  
Hazardous decomposition products  
Hazardous decomposition products formed under fire conditions. - Titanium/titanium oxides,  
neodymium oxides  
In the event of fire: see section 5

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity  
Inhalation: No data available  
Dermal: No data available  
No data available  
Skin corrosion/irritation  
Serious eye damage/eye irritation  
Respiratory or skin sensitisation  
Germ cell mutagenicity  
Carcinogenicity  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
Reproductive toxicity  
No data available  
No data available  
Specific target organ toxicity - single exposure  
Specific target organ toxicity - repeated exposure  
Aspiration hazard  
Additional Information  
RTECS: Not available

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity  
Persistence and degradability  
Bioaccumulative potential  
Mobility in soil  
Results of PBT and vPvB assessment  
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods  
Product  
Observe all federal, state, and local environmental regulations.

Contaminated packaging  
Dispose of as unused product.

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## SECTION 14. TRANSPORT INFORMATION

DOT (US)  
Not dangerous goods  
IMDG  
Not dangerous goods  
IATA  
Not dangerous goods

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## SECTION 15. REGULATORY INFORMATION

SARA 302 Components  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
SARA 313 Components  
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  
Neodymium(III) titanate  
CAS-No.  
-  
Revision Date  
New Jersey Right To Know Components  
Neodymium(III) titanate  
CAS-No.  
-  
Revision Date  
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.

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## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. **COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.**  
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