Trade Name:	Niobium Pentoxide
Chemical Formula:	Nb ₂ O ₅
Manufacturer Item Number:	NB-4490
Manufacturer:	Lorad Chemical Corporation 1200 19th Street North Saint Petersburg, Florida, 33713 United States of America
Telephone:	+1 (727) 826–5511
Fax:	+1 (727) 826–5510
Emergency Contact:	(800) 255–3924 (US & Canada) +1 (813) 248–0573 (International)
2. HAZARD IDENTIFICATION	
Signal Word:	Warning
Hazard Statements:	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Hazard Statements: Precautionary Statements: HMIS Health Ratings (0-4)	H319 Causes serious eye irritation.

Additional Names:	Niobium(V) Oxide
Percentage:	100 wt%
CAS #:	1313-96-8
EC #:	215-213-6
4. FIRST AID PROCEDURES	
General Treatment	Consult a physician. Show this SDS to the physician in attendance. Move out of dangerous area.
Special Treatment:	No Data Available.

Important Symptoms:	The most important known symptoms are described in Section 2 and / or Section 11.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5. FIREFIGHTING MEASURES	
Flammability:	Not Flammable.
Special Hazards from Substance:	Niobium oxides
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Environmental Precautions:	Prevent further leakage or spills if safe to do so. Do not allow to enter drains, sewers, or watercourses.
7. HANDLING AND STORAGE	
Handling Conditions:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places were dust is formed. Handle in accordance with
	good industrial hygiene and safety practices.
Storage Conditions:	Keep container tightly closed in dry and well-ventilated place.
Storage Conditions: Work / Hygienic Maintenance:	5 ,6 ,1



8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:	Contains no substances with occupational exposure limit values.
Threshold Limit Value:	Contains no substances with occupational exposure limit values.
Special Equipment:	No Data Available.
Respiratory Protection:	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Protective Gloves:	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:	Safety glasses with side-shields. Glasses should conform to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Body Protection:	Wear appropriate protective clothing.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	White
Forms:	Powder
Odor:	Odorless
Water Solubility:	Insoluable
Boiling Point:	No Data Available.
Melting Point:	1,521°C (2,754°F)
Flash Point:	No Data Available.
Autoignition Temperature:	No Data Available.
Density:	4.6 g/cm ³
Molecular Weight:	265.81 g/mol
10. REACTIVITY	
Stability:	Stable under recommended storage conditions.
Reacts with:	Strong oxidizing agents
Incompatible Conditions:	No Data Available.
Hazardous Decomposition Products:	Metal oxide fume
11. TOXICOLOGICAL INFORMATIO	Ν



Potential Health Effects: ⁻ Eyes ⁻ Skin ⁻ Ingestion ⁻ Inhalation ⁻ Chronic	May cause irritation. May cause irritation. May cause irritation. May cause irritation. May cause irritation.
Signs and Symptoms:	No Data Available.
Aggravate Medical Conditions:	No Data Available.
Median Lethal Dose:	No Data Available.
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable 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.
12. ECOLOGICAL INFORMATION	

Aquatic Toxicity:	Low aquatic toxicity.
Persistence and degradability:	No Data Available.
Bioaccumulative potential:	No Data Available.
Notes:	No Data Available.

13. DISPOSAL CONSIDERATIONS

Disposal:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

14. TRANSPORTATION DATA		
Hazardous:	DoT : Not Dangerous Goods IMDG: Not Dangerous Goods IATA: Not Dangerous Goods	
Pictogram:	N/A	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
Proper Shipping Name:	N/A	
15. REGULATORY INFORMA	TION	



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	Acute Health Hazard
Massachusetts Right to Know Components	No components are subject to the Ma. Right to Know Act.
Pennsylvania Right to Know Components	Niobium Pentoxide (CAS No. 1313-96-8)
New Jersey Right to Know Compoents	Niobium Pentoxide (CAS No. 1313-96-8)
California Prop. 65 Components	This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

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