



Material Safety Data Sheet

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SECTION 1: Product Identification

Product name	(N,N'-di-i-propylacetamidinato)niobium tetrachloride
CAS #	NA
Catalog #	0410950
Chemical family	Organometallic derivative

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
(N,N'-di-i-propylacetamidinato)niobium tetrachloride		NA	none	C	34

SECTION 3: Hazard Identification

Emergency overview	Corrosive to skin and eyes. Material may hydrolyze in contact with moisture and release corrosive fumes.
Eye contact	Corrosive to the eyes.
Skin contact	Corrosive to the skin.
Inhalation	Under hydrolysis emit hydrogen chloride that may lead to respiratory tract burns.
Ingestion	May cause gastrointestinal tract burns.
Chronic health effects	No information available.

SECTION 4: First Aid Measures

Eye exposure	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin exposure	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Inhalation	Remove from exposure to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, pain, etc. In such cases seek immediate medical assistance.
Ingestion	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

SECTION 5: Fire Fighting Measures

General information	If this material is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. If involved in a fire this material may emit corrosive hydrogen chloride fumes.
Extinguishing media	Use dry chemical, carbon dioxide, or chemical foam.

SECTION 6: Accidental Release Measures

Spill and leak procedures	Small spills can be mixed with vermiculite or sodium carbonate or other inert material and swept up.
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SECTION 7: Handling and Storage	
Handling	Avoid contact with skin, eyes and clothes. Avoid contact with moisture. Handle under inert atmosphere of nitrogen or argon.
Storage	Store in a cool, dry place. Store in a tightly closed container under inert atmosphere of nitrogen. Keep away from open flame and heat.
SECTION 8: Exposure Controls and Personal Protection	
Eye protection	Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin protection	Wear protective gloves.
Ventilation	Handle the material only in an efficient fume hood.
Respirator	If ventilation is not available a respirator should be worn. The use of respirators requires Respirator Protection Program to be in compliance with 29CFR 1910.134.
SECTION 9: Physical and Chemical Properties	
Appearance	Red xtl.
Odor	No data
Melting point	No data
Boiling point	No data
Flash point	No data
Solubility in water	Reacts with water
Specific gravity	No data
Molecular formula	C ₈ H ₁₇ Cl ₄ N ₂ Nb
Molecular weight	375.95
SECTION 10: Stability and Reactivity	
Stability	Moisture sensitive solid (hydrolyzes under contact with water)
Hazardous polymerization	No hazardous polymerization.
Conditions to avoid	Contact with water, moist air.
Incompatibilities with other materials	Oxidizing agents, active metals, water
Hazardous decomposition products	Carbon dioxide, carbon monoxide, niobium oxides, hydrogen chloride and organic fumes.
SECTION 11: Toxicological Information	
RTECS Data	No data available.
Carcinogenic effects	No data available.
Mutagenic effects	No data available.
Teratogenic effects	No data available.
SECTION 12: Ecological Information	
Ecological information	No data available
SECTION 13: Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.	

SECTION 14: Transport Information	
Shipping name (CFR)	Corrosive solid, acidic, organic, N.O.S.
Hazard class (CFR)	8
Additional hazard class (CFR)	NA
Packing group (CFR)	II
UN ID number (CFR)	3261
Shipping name (IATA)	Corrosive solid, acidic, organic, N.O.S.
Hazard class (IATA)	8
Additional hazard class (IATA)	NA
Packing group (IATA)	II
UN ID number (IATA)	3261
SECTION 15: Regulatory Information	
TSCA	Title compound not listed.
SARA	Not reportable under SARA Title 313.
SECTION 16: Other Information	
Preparation date	16.08.10
Revision date	16.08.10
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