

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Niobium (V) iodide
CAS #: 13779-92-5
FORMULA: NbI₅
SYNONYM: Niobium pentachloride, Columbium pentachloride

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	13779-92-5	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: May cause severe skin and eye irritation, cough, breathing difficulty, nausea and vomiting. Prolonged exposure may produce a mild toxic syndrome known as iodism.

PRIMARY ROUTES OF EXPOSURE: Contact with skin and eyes. Inhalation of dust.

EYE CONTACT: May cause redness, pain, and blurred vision. Splashes from solutions may cause eye damage.

SKIN CONTACT: May cause severe irritation, ulcerations, itching, pimples, boils, hives, blisters and skin burns.

INHALATION: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

INGESTION: May cause severe irritation to the gastrointestinal tract with abdominal pain, nausea, and vomiting.

CHRONIC HEALTH EFFECTS: Chronic ingestion of iodides may produce iodism. Symptoms include skin rash, running nose, headache and irritation of mucous membranes.

ACUTE HEALTH EFFECTS: Inhalation of dust may cause coughing and shortness of breath. Ingestion may cause abdominal pain, nausea, and vomiting. Skin and eye contact will cause severe irritation.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.