

MATERIAL SAFETY DATA SHEET

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

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SECTION 1 Product Identification

CHEMICAL NAME: Zirconium (IV) t-butoxide
CAS#: 2081-12-1
FORMULA: Zr(OC₄H₉)₄
SYNONYM: zirconium t-butylate; t-butanol, zirconium salt

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	2081-12-1	100	5mg/m ³ (as Zr)	5mg/m ³ (as Zr)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: The liquid may irritate the skin, eyes, and respiratory system. Moisture will produce zirconium oxide powder and t-butanol vapor which may cause severe eye irritation and drowsiness.

PRIMARY ROUTES OF EXPOSURE: Inhalation, ingestion, contact with skin and eyes.

EYE CONTACT: If liquid contacts the eye, irritating zirconium oxide powder may form. t-Butanol vapor from hydrolyzed product may cause eye irritation.

SKIN CONTACT: Dehydrating agent. Liquid may cause mild irritation of the skin.

INHALATION: t-butanol vapor may be irritating to the respiratory tract and cause headache, dizziness, and drowsiness.

INGESTION: Ingestion may cause gastrointestinal distress, nausea, vomiting and headache.

CHRONIC HEALTH EFFECTS: No data is available for this product. In animal studies, t-butanol in high doses has acted as a reproductive effector

ACUTE HEALTH EFFECTS: No data is available for this product. zirconium oxide hydrolysis product exhibits low toxicity. t-Butanol causes severe eye irritation, drowsiness, and gastrointestinal distress.

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