

MATERIAL SAFETY DATA SHEET

TYZOR®217 Revised 18-FEB-2008

1. Product and company identification

Material Identification

"Tyzor" is a registered trademark of Dorf Ketal Specialty Catalysts.

Tradenames and Synonyms

Aqueous Zirconium Lactate Complex

PHONE NUMBERS

Product Information: 1-800-441-7515 (outside the U.S.

302-774-1000)

Transport Emergency: CHEMTREC 1-800-424-9300(outside U.S.

703-527-3887)

Medical Emergency : 1-800-441-3637 (outside the U.S.

302-774-1000)

2. Hazards identification

Potential Health Effects

Eye contact with "Tyzor" 217 may cause eye irritation with discomfort, tearing, or blurring of vision.

Skin contact may cause skin irritation with discomfort or rash. Repeated skin contact to zirconium compounds may cause granulomas (inflammatory injury with knotlike swellings) of the skin.

Inhalation may cause respiratory tract irritation or bronchiolitis.

Ingestion may cause nonspecific discomfort, such as nausea, headache, or weakness.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Comming to 744312 100.5 200 1 Standard (Omited States)			1120	
3. Composition/information on ingredients				
	# Components			
	Material Sodium Zirconium Lactate Sodium Chloride Water	CAS Number 174206-15-6 7647-14-5 7732-18-5	% 15-25 5-10 60-75	

4. First aid measures		
	First Aid	
	INHALATION	
	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.	
	SKIN CONTACT	
	Flush skin with water after contact. Wash contaminated clothing before reuse.	
	EYE CONTACT	
	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.	
	INGESTION	
	If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.	
	Notes to Physicians	
	Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 mL water and mix well. Administer 5 mL/kg, or 350 mL for an average adult.	

5.	Fire-fighting measures	
		Flammable Properties
		Not a fire or explosion hazard.
		Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

Wear self-contained breathing apparatus. Wear full protective equipment.

6. Accidental release measures

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

7. Handling and storage

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use.

Storage

Keep container tightly closed.

8. Exposure controls/personal protection

Engineering Controls

Use only with adequate ventilation.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses or where splash potential exists wear chemical splash goggles.

RESPIRATORS

Date of Issue: 04 APR 2010

Wear NIOSH approved respiratory protection, as appropriate.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

Exposure Guidelines

Exposure Limits "Tyzor" 217

PEL (OSHA): None Established TLV (ACGIH): None Established

9. Physical and chemical properties

Physical Data

Boiling Point: ~100 C (~212 F) @ 760 mm Hg

Freezing Point: ~0 C (~32 F) % Volatiles: 60-70 % Solubility in Water: 100 % PH: 7 Odor: None. Color: Colorless.

Specific Gravity: 1.2 g/mL @ Room Temperature

Form: Slightly Hazy Liquid

10. Stability and reactivity

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

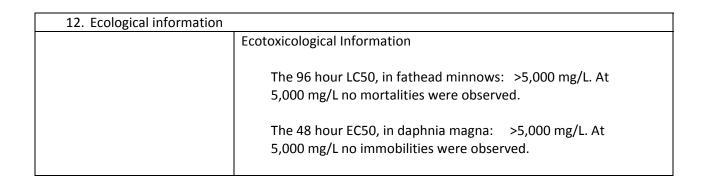
Decomposition will not occur.

Polymerization

Polymerization will not occur.

Date of Issue: 04 APR 2010

11. Toxicological information **Animal Data** "Tyzor" 217: Oral ALD: > 5,000 mg/kg in rats The product is a slight skin irritant and a mild eye irritant in animals. A single ingestion exposure produced no clinical signs of toxicity and no weight loss. No animal test reports are available to define carcinogenic, developmental, mutagenic or reproductive hazards of the product. A single ingestion exposure to sodium chloride caused nonspecific effects such as increased urination frequency, and abnormal thirst; administration of a 25% solution by intubation resulted in gastric lesions. Repeated ingestion exposures caused accelerated development of hypertension, and increased kidney and left ventricle weight. Sodium chloride does not produce genetic damage in bacterial cell cultures but has not been tested in animals.



13. Disposal considerations	
	Waste Disposal
	Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14. Transport information	
	Shipping Information

Not regulated as a hazardous material by DOT or IMO.

15. Regulatory information		
	U.S. Federal Reg	ulations
		tory Status : Listed. ZARD CLASSIFICATIONS SECTIONS 311, 312
	Acute:	Yes
	Chronic:	No
	Fire:	No
	Reactivity:	No
	Pressure:	No

16. Other information	
	NFPA, NPCA-HMIS
	NPCA-HMIS Rating
	Health: 2
	Flammability: 0
	Reactivity: 0
	Personal Protection rating to be supplied by user depending on use conditions.
	The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.