



Material Safety Data Sheet

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SECTION 1: Product Identification

Product name	Tris(ethylcyclopentadienyl)gadolinium (III) (99.9%-Gd) (REO)
CAS #	307531-69-7
Catalog #	0640900
Chemical family	Cyclopentadienyl metal derivatives

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
Tris(ethylcyclopentadienyl)-gadolinium	99	307531-69-7	none	F	11 14/15

SECTION 3: Hazard Identification

Emergency overview	Irritating to the eyes, skin and respiratory system. Flammable solid.
Eye contact	Irritation to the eyes.
Skin contact	Irritation to the skin.
Inhalation	Irritation to the respiratory tract.
Ingestion	Ingestion may lead to thermal burns, vomiting and diarrhea.
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	Flammable solid. 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.
Extinguishing media	Don't use water! Use dry chemical, carbon dioxide.

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. Handle under inert atmosphere of argon or nitrogen.
Storage	Store in a cool, dry place. Store in a tightly closed container. Keep away from the air, moisture, open flame and heat. Store under inert atmosphere of argon or nitrogen.
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	Light yellow pwdr.
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 ₂₁ H ₂₇ Gd
Molecular weight	436.69
SECTION 10: Stability and Reactivity	
Stability	Air and moisture sensitive solid.
Hazardous polymerization	No hazardous polymerization.
Conditions to avoid	Incompatible materials. Contact with moist air or water.
Incompatibilities with other materials	Strong oxygen agents, halogens, water.
Hazardous decomposition products	Carbon dioxide, carbon monoxide, gadolinium oxide, organic fumes.
SECTION 11: Toxicological Information	
RTECS Data	No data available.
Carcinogenic effects	No data available.
Mutagenic effects	No data available.
Tetratogenic 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)	Flammable solid, organic, N.O.S.
Hazard class (CFR)	4.1
Additional hazard class (CFR)	NA
Packing group (CFR)	II
UN ID number (CFR)	1325
Shipping name (IATA)	Flammable solid, organic, N.O.S.
Hazard class (IATA)	4.1
Additional hazard class (IATA)	NA
Packing group (IATA)	II
UN ID number (IATA)	1325
SECTION 15: Regulatory Information	
TSCA	Title compound is not listed.
SARA	Not reportable under SARA Title 313.
SECTION 16: Other Information	
Preparation date	25.01.2008
Revision date	25.01.2008
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