

MATERIAL SAFETY DATA SHEET

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

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SECTION 1 Product Identification

CHEMICAL NAME: Gadolinium chips
CAS #: 7440-54-2
FORMULA: Gd

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-54-2	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Slight to mild irritation of eyes, skin, and nasal cavity by any dust present.
PRIMARY ROUTES OF EXPOSURE: Inhalation (of any dust or fume)
EYE CONTACT: Dust, if present, may cause slight to mild irritation of the eyes.
SKIN CONTACT: Dust, if present, may cause slight to mild irritation of the skin.
INHALATION: Inhalation of any fine dust may be irritating to the nasal cavity, mucous membranes and respiratory tract.
INGESTION: No specific information is available on the physiological effects of ingestion.
CHRONIC HEALTH EFFECTS: No information available on the effects of long-term exposure.
ACUTE HEALTH EFFECTS: Dust, if present, may be irritating to skin, eyes and respiratory tract.

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.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: Dry chemical or Class D metal fire agent.

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire, burning metal may produce mildly irritating fumes of Gadolinium oxide or carbonate.

UNUSUAL FIRE OR EXPLOSION HAZARDS: May burn with intense heat. Dust may form explosive mixtures with air. Evolves hydrogen with hot water.

SECTION 6 Accidental Release Measures

SPILL AND LEAD PROCEDURES:

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container .

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: gray pieces

MOLECULAR WEIGHT: 157.25

MELTING POINT (DEG. C.): none

BOILING POINT: 3233°

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 7.898

SOLUBILITY IN WATER: reacts with water

SECTION 10 Stability and Reactivity

STABILITY: air sensitive

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: Contact with hot water. Fine dust mixed with air.

