



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Gadolinium (III) 2,2,6,6-tetramethyl-3,5-heptanedonate**
PRODUCT NUMBER: 1845
CAS NUMBER: 14768-15-1
SYNONYMS: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)gadolinium (III), Gd(TMHD), Gadolinium(III)-DPM,
MANUFACTURER:

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation.

INHALATION: May cause respiratory irritation.

INGESTION: May cause irritation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Gd}(\text{C}_{11}\text{H}_{19}\text{O}_2)_3$

Molecular Weight: 707.06

CHEMICAL NAME	CAS#	%
Gadolinium (III) 2,2,6,6-tetramethyl-3,5-heptanedionate	14768-15-1	100

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. Take off immediately all contaminated clothing. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. In such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: This product is not flammable.

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Water spray, carbon dioxide, and chemical foam. Use extinguishing media that is suitable for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and gadolinium oxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains or allow to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Avoiding dust formation, take up dry and dispose of properly. Clean up affected area.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid formation of dust and contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Handle in an efficient chemical 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: Off white powder

MOLECULAR WEIGHT: 707.06

BOILING POINT: 295° C

MELTING POINT: 178-183° C

SPECIFIC GRAVITY: No data available

SOLUBILITY IN WATER: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Hygroscopic

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: Exposure to moisture

INCOMPATIBILITY: No data available

DECOMPOSITION PRODUCTS: Carbon oxides and gadolinium oxide

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: No data available

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen by IARC, ACGIH, NTP, and OSHA.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: Not listed in the TSCA inventory

SARA 313: Not listed

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 10/25

SDS DEPT.